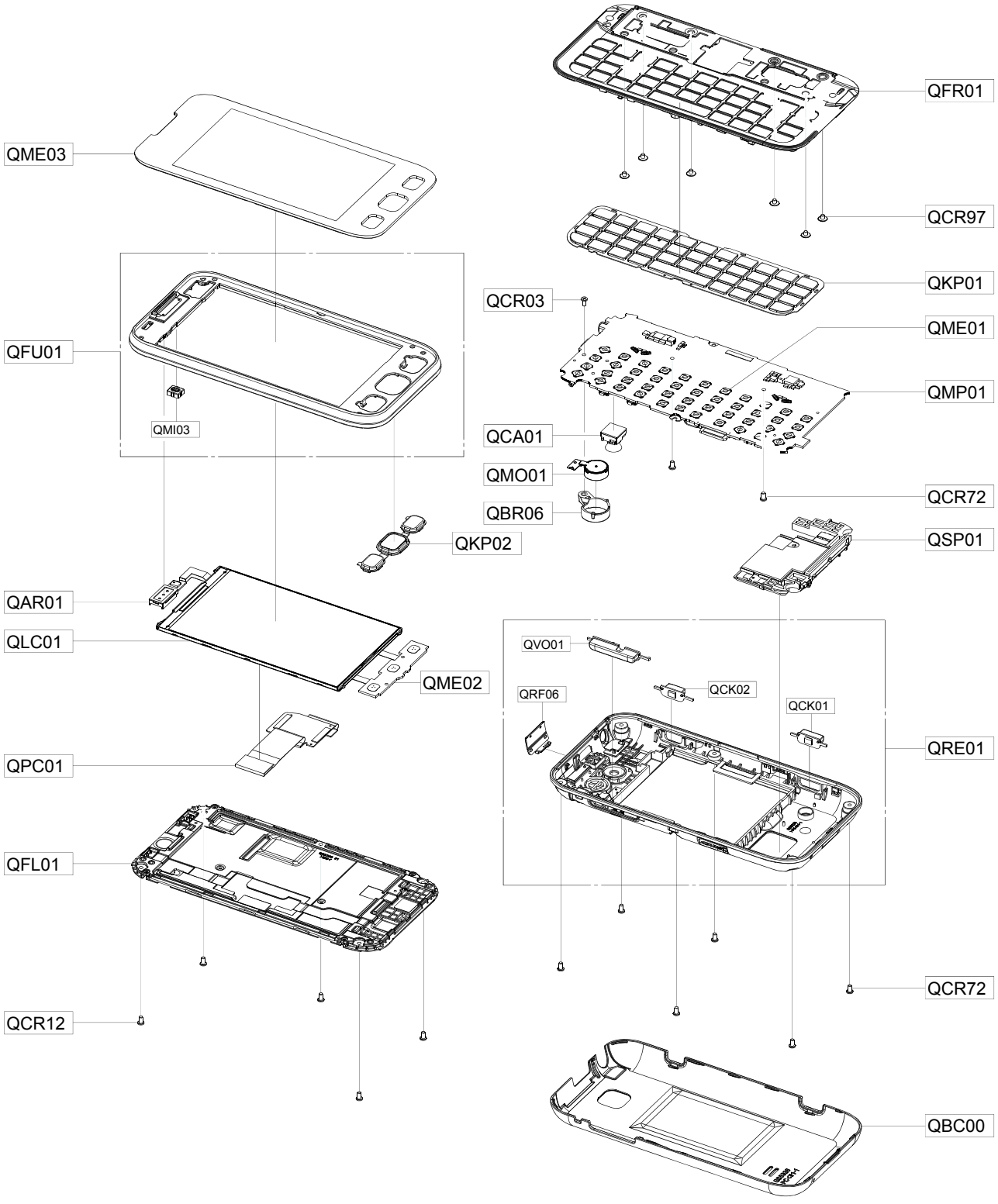
4. Exploded View and Parts List

4-1. Cellular phone Exploded View



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5. MAIN Electrical Parts List

Design LOC	SEC CODE	Description
D601	0403-001688	USFZ5.6V-RTK/H
D200,D500	0404-001172	RB520S-30
ZD102,ZD103	0404-001504	JDH2S01FS
ZD402,ZD403,ZD404	0406-001231	DF2S5.6FS(TPL3)
ZD406,ZD600,ZD602	0406-001231	DF2S5.6FS(TPL3)
ZD603	0406-001231	DF2S5.6FS(TPL3)
ZD400,ZD500,ZD604	0406-001286	PESD5V0L5UV
D401	0407-001002	DAN222TL
LED600,LED601,LED602	0601-002233	SSC-SWTS1007-J3E
LED603	0601-002233	SSC-SWTS1007-J3E
U600	0801-002970	TC7SH08FS
U200	0801-003130	NC7SV17L6X
U603	1001-001585	SC900776EDR2
U100	1001-001607	XM2400SN-AL0901
U402	1001-001655	NX3L1T5157GM
U104,U105	1001-001664	FSA2466UMX
U504	1009-001036	HED59XXU12
UME200	1108-000353	KAT007029M-BRTT
PAM100	1201-002943	SKY77528-32
U500	1203-006331	KTD259BEHD-TR
U604	1203-006456	STM6522AAAADG6F
U300	1203-006468	MAX8990EWG+TC31
U605	1205-003623	STMPE1601TBR
U103	1205-003866	BCM2075B0KUBG
U101	1205-003868	BCM4319SKUBG
UCP200	1205-004046	BCM21334C3IFBG
U404	1209-001817	BMA023
VR200	1404-001221	NCP15WB473J04RC
D400	1405-001291	LXES15AAA1-017
L406,R128,R129,R620	2007-000138	RC1005J101CS
R127,R213	2007-000139	RC1005J221CS
R133	2007-000140	RC1005J102CS
R203,R204,R217,R218	2007-000141	RC1005J222CS
R406,R407	2007-000141	RC1005J222CS
R200,R500,R600,R601	2007-000143	RC1005J472CS
R604,R605	2007-000143	RC1005J472CS
R209,R210,R212,R219	2007-000144	RC1005J512CS
L402,R308,R606,R607	2007-000148	RC1005J103CS

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Design LOC	SEC CODE	Description
R619	2007-000156	RC1005J303CS
R118,R124,R125,R126	2007-000162	RC1005J104CS
R206,R214,R225,R226	2007-000162	RC1005J104CS
R227,R228,R229,R611	2007-000162	RC1005J104CS
R612	2007-000162	RC1005J104CS
R307	2007-000170	RC1005J105CS
R502	2007-000172	RC1005J100CS
R410	2007-000242	RC1005J152CS
R301,R302	2007-001288	MCR01MZP5J180
R221	2007-001311	RC1005J271CS
R401	2007-001341	RC1005J684CS
R409	2007-002796	MCR01MZP5J511
R614,R615,R616,R617	2007-002965	RK73K1ETP150J
R100,R101	2007-003018	RMC16S-430J-TP
R116,R123	2007-007132	RC1005F153CS
L201,R413,R414	2007-007193	TSR16GJ5R1V
R215	2007-007312	MCR01MZP5F2002
R216	2007-007315	MCR01MZP5F3901
R201,R202	2007-007981	ERJ2RKF1803X
R205	2007-008401	RC1005F754CS
R207	2007-008517	RC1005F2403CS
C172,C233,C617	2203-000233	GRP1555C1H101J
C155,C224,C232	2203-000254	GRP155R71C103K
C112,C130,C163,C167	2203-000278	GRP1555C1H100D
C170,C178	2203-000278	GRP1555C1H100D
C185,L139,L140	2203-000311	GRP1555C1H121JD01E
C221	2203-000425	GRP1555C1H180J
C160,C169	2203-000438	GRP155R71H102K
C303,C305	2203-000550	GRP1555C1H200JZ01E
C403,C415	2203-000679	GRP1555C1H270J
C106	2203-000696	GRP1555C1H2R0C
C512,C513	2203-000812	GRP1555C1H330J
C201	2203-000854	GRP1555C1H390J
C207,C218,C230	2203-000995	GRP1555C1H470J
C103	2203-001072	GRP1555C1H560JD01E
C225,C401,C402	2203-001101	GRP155R71E682KA01E
C183	2203-001221	GRP155R71H821KD01E
C400,C404	2203-002443	GRP155R71H331KD01E

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Design LOC	SEC CODE	Description
C604	2203-002487	CL05B472KA5NNNC
C157,C184,C318,C413	2203-002709	C1005Y5V1C104ZT
C504,C505,C601	2203-002709	C1005Y5V1C104ZT
C150,C177	2203-005450	GRP1555C1H5R6BZ01E
C182	2203-005552	GRP1555C1H2R2BZ01E
C122,C123,C127,C164	2203-006048	GRM155R71A104K
C165,C175,C176,C203	2203-006048	GRM155R71A104K
C210,C212,C213,C214	2203-006048	GRM155R71A104K
C215,C219,C220,C315	2203-006048	GRM155R71A104K
C317,C609,C616	2203-006048	GRM155R71A104K
C603	2203-006141	GRM188R61C105K
C228	2203-006208	CM105X5R475M06AT
C135,C136,C158,C235	2203-006260	GRM155R61A224KE19E
C310,C311	2203-006260	GRM155R61A224KE19E
C606,C610	2203-006361	GRM21BR61A106K
C145,C147,C200,C202	2203-006399	GRM155R60J105KE19D
C204,C209,C211,C304	2203-006399	GRM155R60J105KE19D
C316,C319,C321,C324	2203-006399	GRM155R60J105KE19D
C325,C326,C327,C328	2203-006399	GRM155R60J105KE19D
C329,C336,C339,C342	2203-006399	GRM155R60J105KE19D
C345,C346,C405,C503	2203-006399	GRM155R60J105KE19D
C509,C510,C511,C614	2203-006399	GRM155R60J105KE19D
C500	2203-006466	GRM188F51E474ZA01D
C133,C302,C330,C408	2203-006562	CV05X5R105K10AH
C410,C411,C412,C416	2203-006562	CV05X5R105K10AH
C417,C605	2203-006562	CV05X5R105K10AH
C216,C217,C227,C229	2203-006681	GRM155F51E104ZA01D
C419	2203-006681	GRM155F51E104ZA01D
C502	2203-006824	CV105X5R475K10AT
C234,C314,C602	2203-006841	CV05X5R105K16AH
R613	2203-006844	CV05X5R474K10AH
C121,C126,C128,C129	2203-006872	GRM155R60J225ME15D
C131,C132,C153,C156	2203-006872	GRM155R60J225ME15D
C168,C181,C205,C206	2203-006872	GRM155R60J225ME15D
C208,C222,C223,C226	2203-006872	GRM155R60J225ME15D
C322,C323,C331,C332	2203-006872	GRM155R60J225ME15D
C333,C334	2203-006872	GRM155R60J225ME15D
C312,C313,C335	2203-006890	CV105X5R106M06AT

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Design LOC	SEC CODE	Description
C159	2203-007133	CL21A106KOCLRNC
TA400	2203-007269	CL21A226MPCLRNC
C166	2203-007271	CL05A225KP5NSNC
C300,C501	2203-007279	CV105X5R106M10AT
C134	2203-007317	CV05X5R475M06AH
C124,C125,C142,C143	2203-007393	CL05A475KP5NRNC
C301	2404-001506	TCTP1A476M8R-D
L131,L135	2703-001409	LL1005-FH12NK
L127	2703-001734	LL1005-FH6N8J
L115,L136	2703-002170	CIH05T6N8JNC
L107,L110	2703-002176	CIH05T2N7SNC
L108,L109	2703-002198	CIH05T10NJNC
L113,L114	2703-002200	CIH05T18NJNC
L103,L105	2703-002203	CIH05T15NJNC
L117,L118	2703-002204	CIH05T22NJNC
L132,L134	2703-002205	CIH05T3N9KNC
L101,L106	2703-002208	CIH05T2N2SNC
L116,L137	2703-002268	CIH05T8N2JNC
L413	2703-002309	CIH05T82NJNC
L102	2703-002314	CIH05T47NJNC
L403,L404	2703-002551	LQW15AN33NH00D
L300,L301	2703-003260	CIG21W2R2MNE
L500	2703-003485	CIG22L100MNE
L138	2703-003698	LQM2HPN3R3MG0L
L405	2703-003878	CIG10WR27MNC
OSC300	2801-004551	CM315-32768-DZFT-K1S
OSC200	2801-004954	SQ2D02600B2JBG
OSC100	2809-001363	TG-5010LH
F503,F504	2901-001470	ICVE10184E070R100FR
F500,F501,F502	2901-001639	ADF-10S-03Q-100-040F
F103	2904-001929	SFDG75BQ102
F100	2904-001953	B9507
F101	2904-001966	B9503
F104	2909-001324	TBF-1608-245-R7
MIC400	3003-001136	SPU0410HR5H
L125	3301-001438	BLM15BB750SN1D
L120,L121	3301-001534	BLM15AG121SN1D
L122,L200,L202	3301-001659	BLM15AG601SN1

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Design LOC	SEC CODE	Description
L600	3301-001789	BLM15EG121SN1D
L503	3301-001938	BLM15HB221SN1D
L400,L401,L411,L412	3301-002065	MMZ1005A182ET
L501,L502,L504	3301-002065	MMZ1005A182ET
L407,L409	3301-002078	BLM15AX102SN1D
TAC600,TAC601,TAC602	3404-001303	LS12K2-T
TAC603	3404-001303	LS12K2-T
RFS100	3705-001731	KMS-560-002-BEF
SIM300	3709-001488	5000-6P-1.5S
CD300	3709-001575	SCHA4B0301
SLC500	3710-003306	3D1201087-ST32-7H
BTC600	3711-006808	KQ03SB1-3R
HEA500	3711-006843	14-5802-044-002-829
ANT102,ANT105	3712-001326	HM01-AR0145
IFC600	3722-003115	KQ20AX-7P-4D
EAR400	3722-003133	IJAN4-77
SC100,SC101,SC102	GH70-04132A	ONBOARD-CLIP-8
SC103,SC105,SC106	GH70-04132A	ONBOARD-CLIP-8
SC107	GH70-04132A	ONBOARD-CLIP-8
ANT100,ANT101,ANT103	GH71-08731A	HJ-ICT-05
ANT104,SPK400,SPK401	GH71-08731A	HJ-ICT-05

Please consult the GSPN website (Samsung Portal) for the most recent version of the product's part list.

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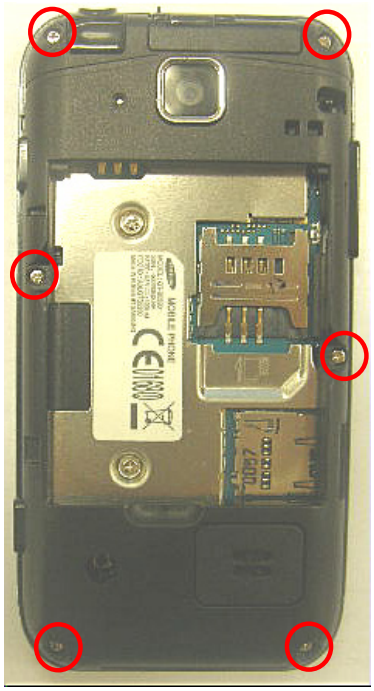
5-2. Cellular phone Parts list : GT-S5330HKAPRT

Design LOC	Description	SEC CODE
QAR01	ASSY ETC-RCV ASSY (GT-S5330)	GH59-09693A
QBC00	ASSY COVER-BATTERY	GH98-16993A
QBR06	PMO BRACKET-MOTOR	GH72-59919A
QCA01	CAMERA MODULE-GT-S5330 3M	GH59-09906A
QCK01	PMO KEY-CAMERA	GH72-59571A
QCK02	PMO KEY-POWER	GH72-59572A
QCR03	SCREW-MACHINE	6001-001811
QCR12	SCREW-MACHINE	6001-001530
QCR72	SCREW-MACHINE	6001-002051
QCR97	SCREW-MACHINE	6001-002262
QFL01	ASSY CASE-SLIDE LOWER	GH98-16999A
QFR01	ASSY CASE-FRONT	GH98-16997A
QFU01	ASSY CASE-SLIDE UPPER	GH98-17002A
QKP01	ASSY KEYPAD-MAIN(QWERTY) EURO+POUND	GH98-16995A
QKP02	ASSY KEYPAD-SUB	GH98-16996A
QLC01	ASSY LCD-3.2" WQVGA GT-S5330 ASSY	GH96-04763A
QME01	DOME SHEET-GT-S5330	GH59-09831A
QME02	KEY FPCB-SUB KEY PBA(GT-S5330)	GH59-09743A
QME03	TOUCH/PANEL-EU BLACK (GT-S5330)	GH59-09674A
QMI03	RMO RUBBER-MIC TOP HOLDER (GRAY)	GH73-14127A
QMO01	MOTOR DC-GT-S5330	GH31-00509A
QMP01	A/S ASSY-PBA MAIN (COMM)	GH82-05210A
QPC01	ASSY ETC-SLIDE FPCB	GH59-09744A
QRE01	ASSY CASE-REAR	GH98-16998A
QRF06	PMO COVER-USB	GH72-59569A
QSP01	MODULE-SPK/INTENNA(GT-S5330)	GH59-09870A
QVO01	PMO KEY-VOLUME V2	GH72-61950A

7. Level 2 Repair

7-1. Dissambly

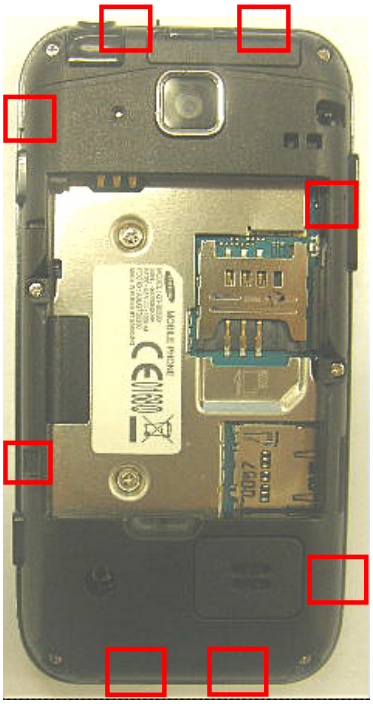
1



Release screws at 6 point.

DO NOT MAKE SCRATCH ON REAR.

2

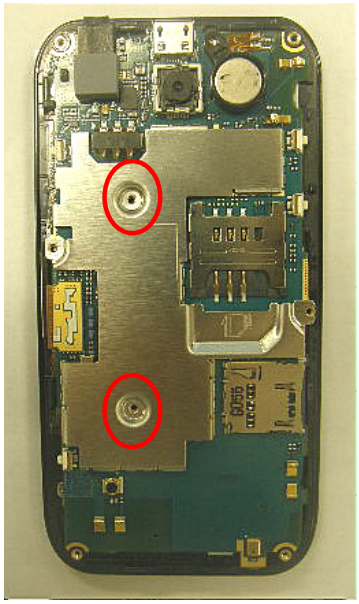


Disjoint HOOK 8 POINT at REAR

3 Disjoint using decomposition tool at rear side.

DO NOT MAKE SCRATCH ON REAR.

4



Release screws at 2 point.

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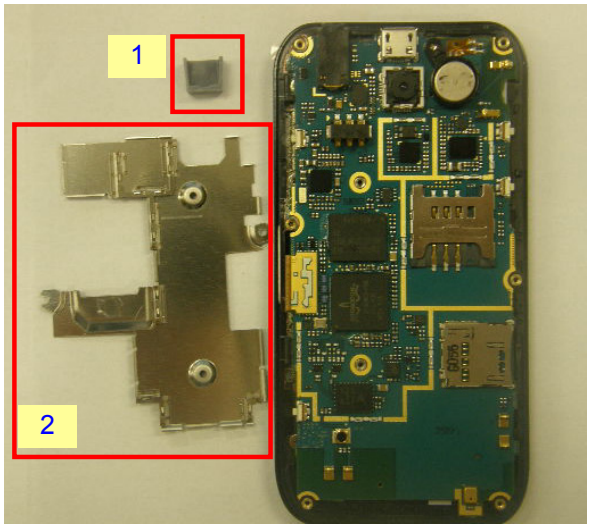
5

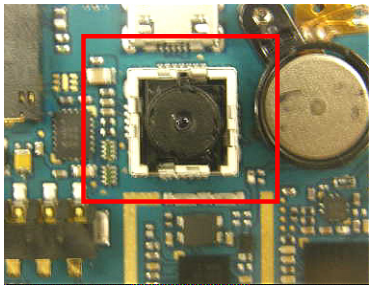


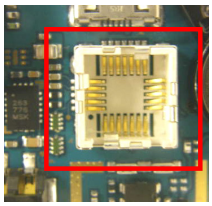
1) Separate 3.5mm rubber at PBA
2) Separate Shield can

Do Not touch the IC and Don't damage ON PBA.

6

Camera decomposition tool
IMK Code : 2318420200

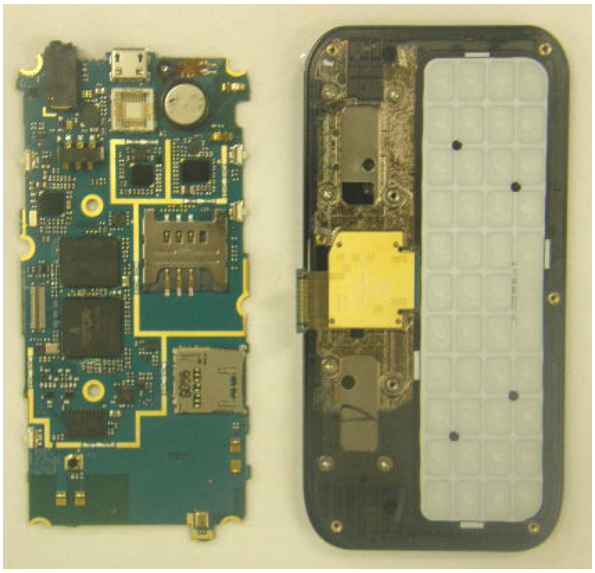




1) Separate Camera at PBA
Use a decomposition tool

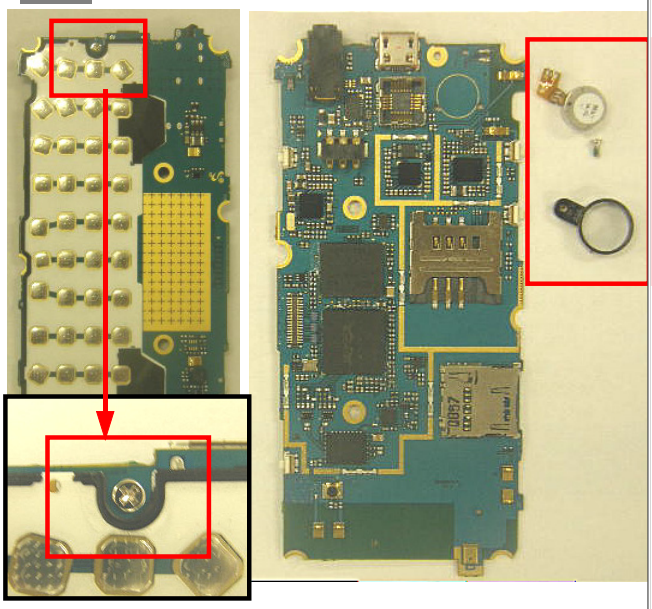
Be careful not to damage camera and socket

7



Disassemble a PBA from Front ass'y
(Refer to the picture)

8



Release screws at 1 point.
Disassemble a motor & bracket from PBA
(Refer to the picture)

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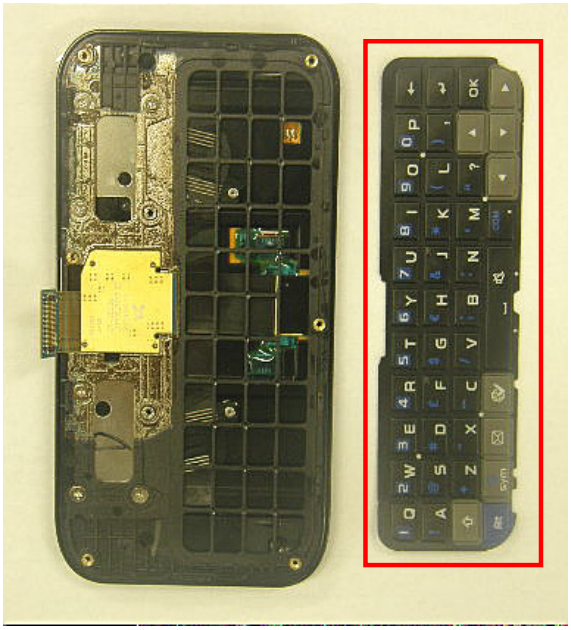
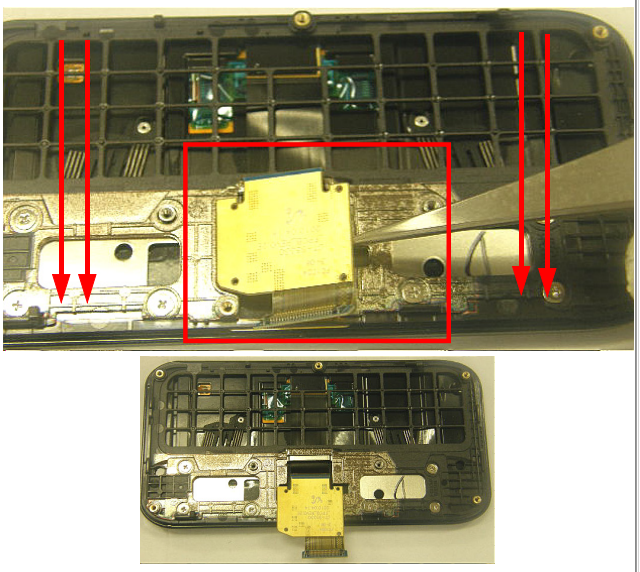
9



Disassemble a keypad from Front ass'y
(Refer to the picture)

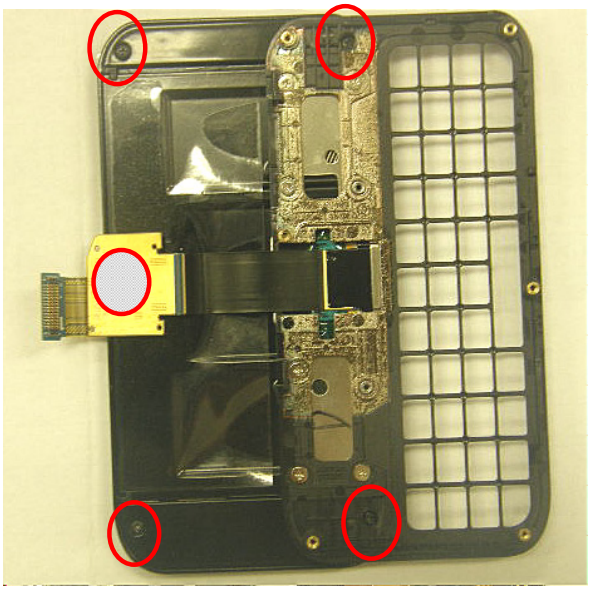
10



1) Separate Slide FPCB connector from Front Ass'y at slide down status (Refer to the picture.)

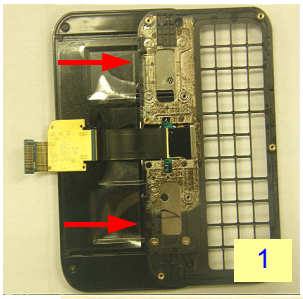
Be careful not to damage slide FPCB

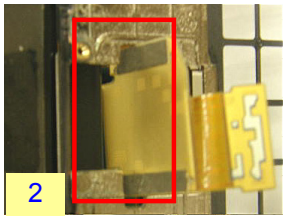
11

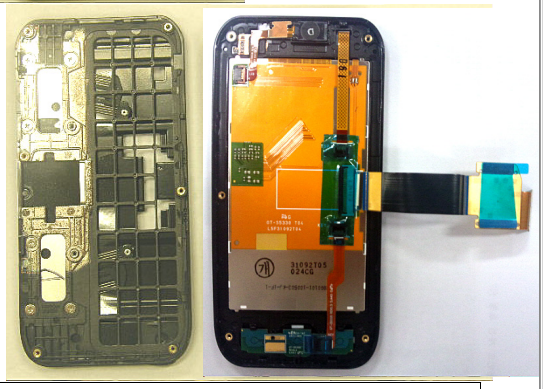


Release screws at 5 point.

12







Disassemble a Lower from Front ass'y
(Refer to the picture)

Be careful not to damage slide FPCB

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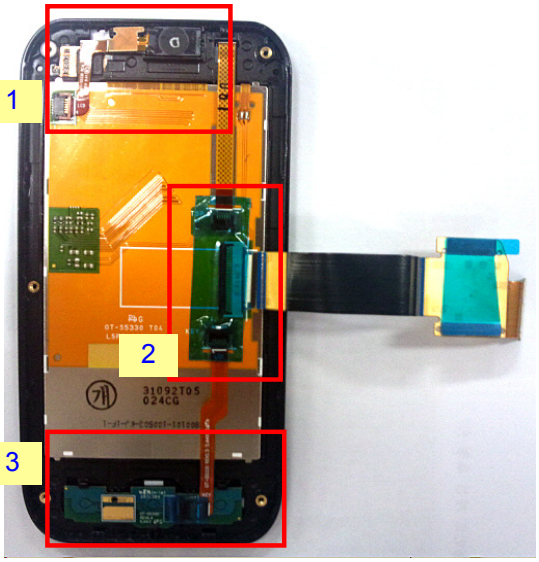
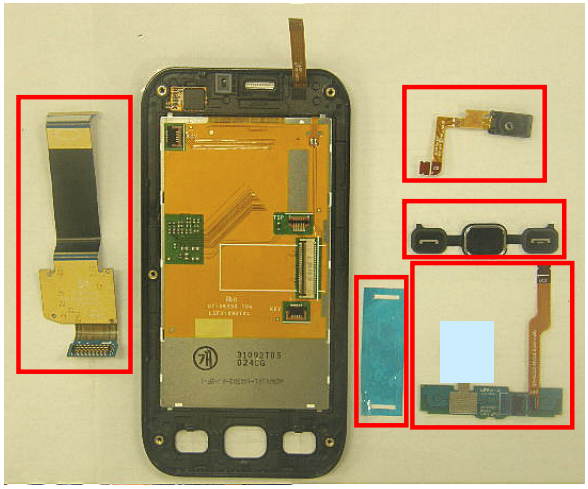
13



1) Disassemble a Receiver ass'y
2) Disassemble a slide FPCB
3) Disassemble a sub key pba & keypad
(Refer to the picture)

14



1) Disassemble a Receiver ass'y
2) Disassemble a slide FPCB
3) Disassemble a sub key pba & keypad
(Refer to the picture.)

Be careful to damage FPCB.

15

Disassembled UPPER and LCD.
(Refer to the picture.)

Be careful to damage LCD.

16

Disassembled UPPER and TSP.
(Refer to the picture.)

Be careful to damage TSP & FPCB.

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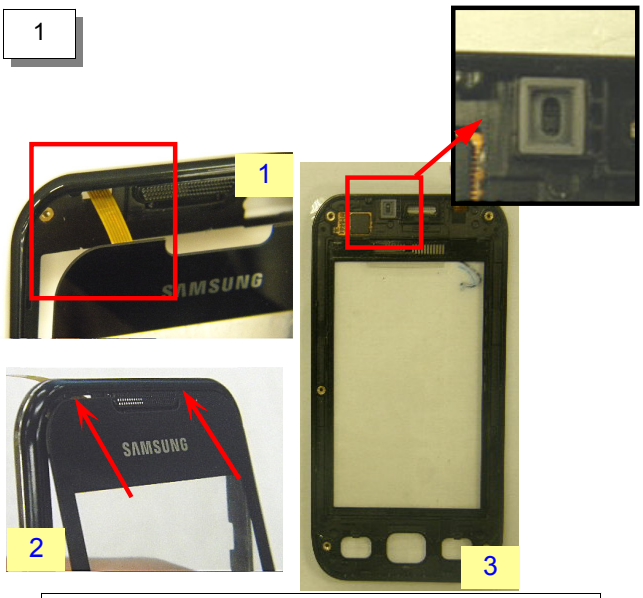
7-2. Assembly

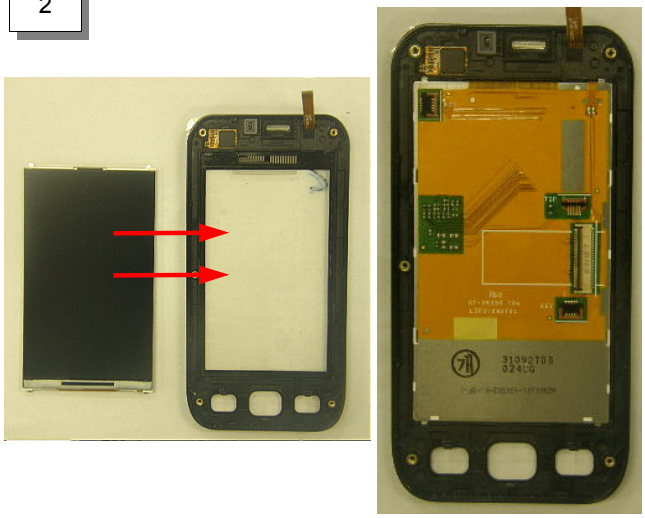
1



Insert TSP FPCB through the UPPER's hole carefully when assembing FRONT and TSP. check the rubber at upper (Refer to the picture.)

Be careful not to tear a TSP FPCB.

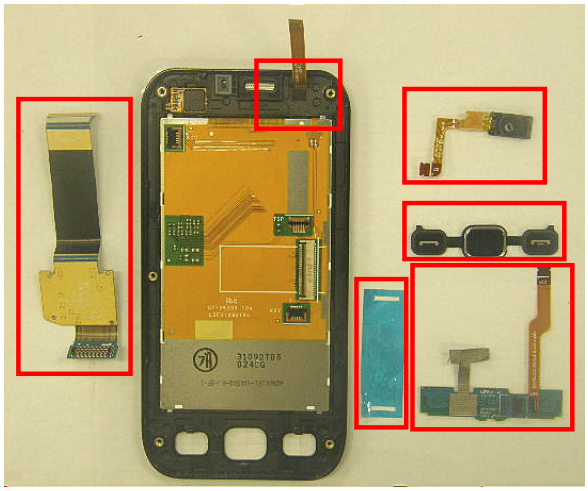
2



Assembled UPPER and LCD.

Be careful to damage LCD.

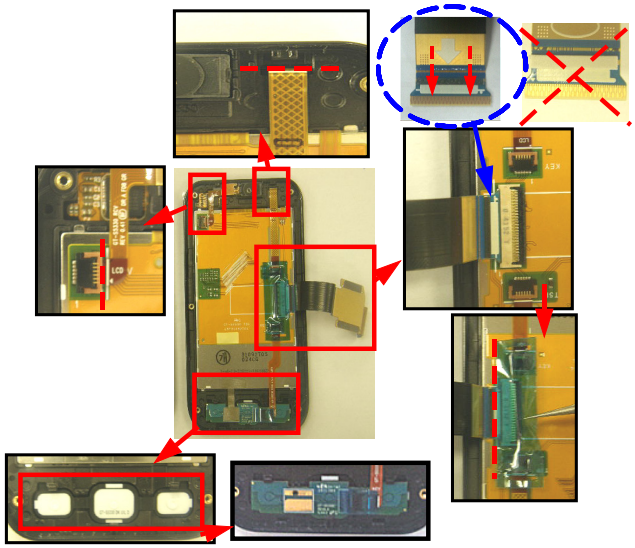
3



1) Assemble a Receiver ass'y
2) Assemble a slide FPCB
3) Assemble a sub key pba & keypad
4) Assemble a TSP FPCB
(Refer to the picture.)

Be careful to damage FPCB.

4



1) Assemble a Receiver ass'y, slide FPCB, sub key pba & keypad, TSP FPCB (Refer to the picture.)

Be careful to damage FPCB and prevent reverse insertion Slide FPCB

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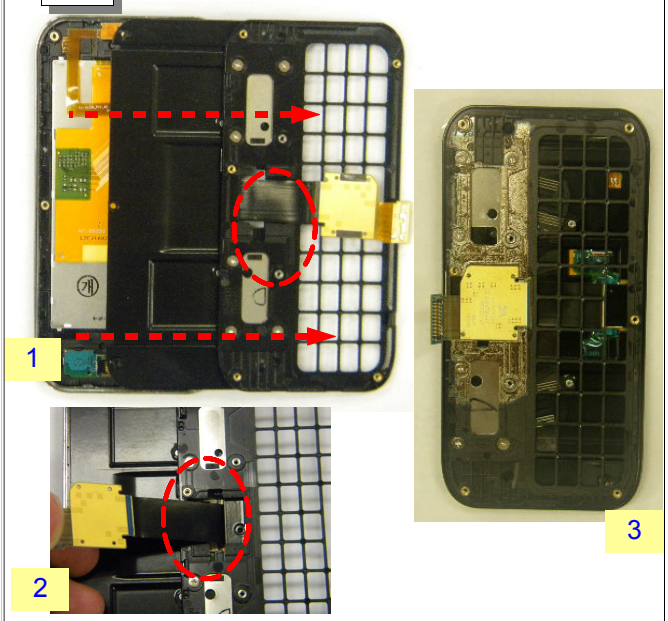
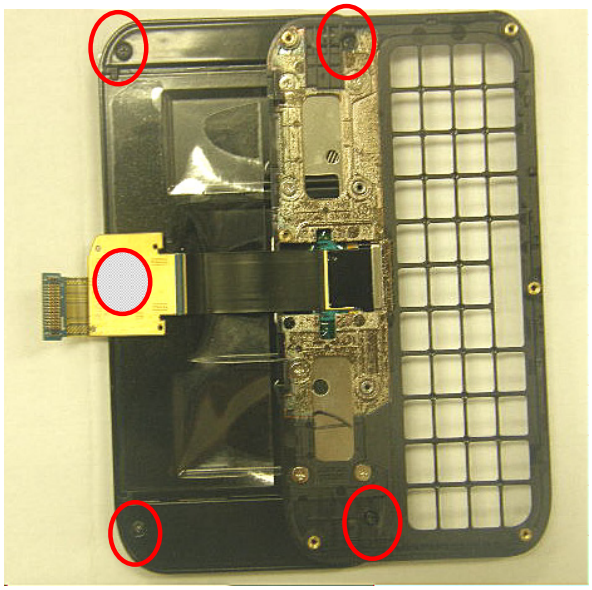
5



Assemble UPPER and Lower+Front.

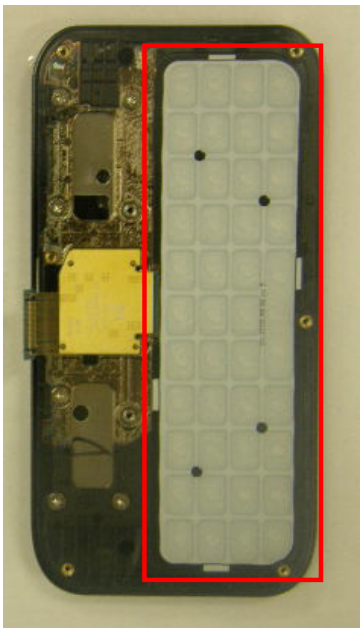
Be careful to damage FPCB.

6



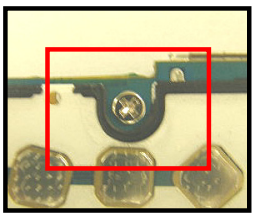
Screw up 5 screw at Front ass'y

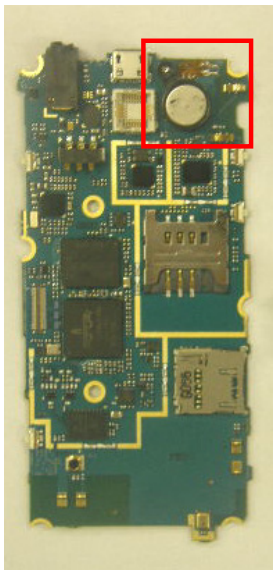
7



Assemble keypad and Front ass'y

8





1) Screw up one screw at PBA
2) Assemble a bracket & motor at PBA
(Refer to the picture)

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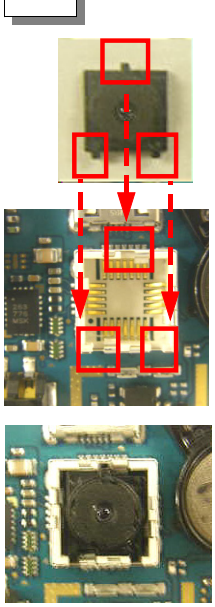
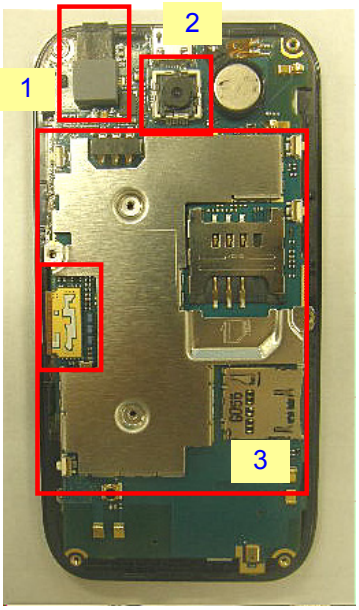
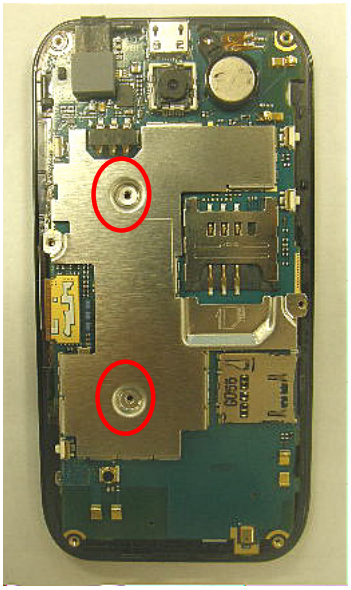
9





1) Assemble a rubber at PBA
2) Assemble a camera at PBA
3) Assemble a shield can at PBA

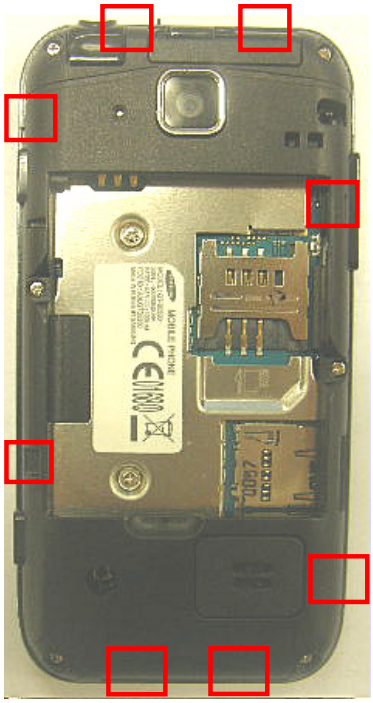
10



1) Screw up 2 screw at PBA

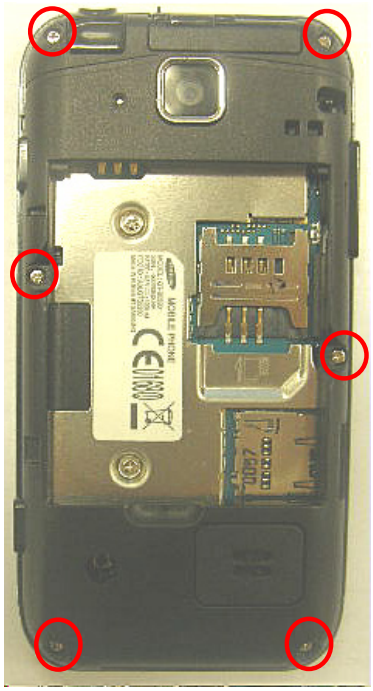
Do Not touch the IC and Don't damage ON PBA.
Torque Spec. : 1.0~1.2 kgf*cm

11



Joint HOOK 8 POINT at REAR

12



Drive screws at 6 point.

DO NOT MAKE SCRATCH ON REAR.
Torque Spec. : 1.0~1.2 kgf*cm

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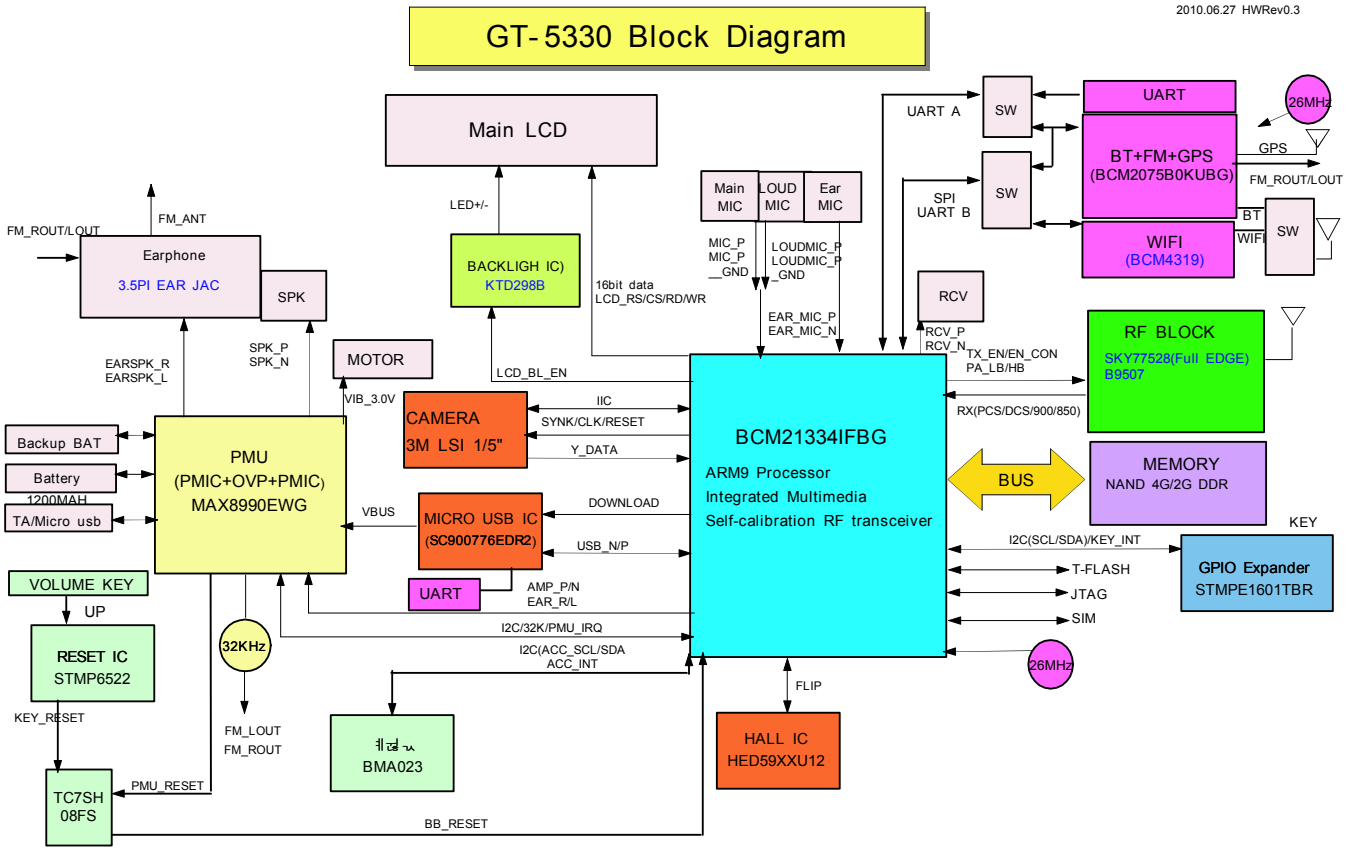
8. Level 3 Repair

8-1. Block Diagram



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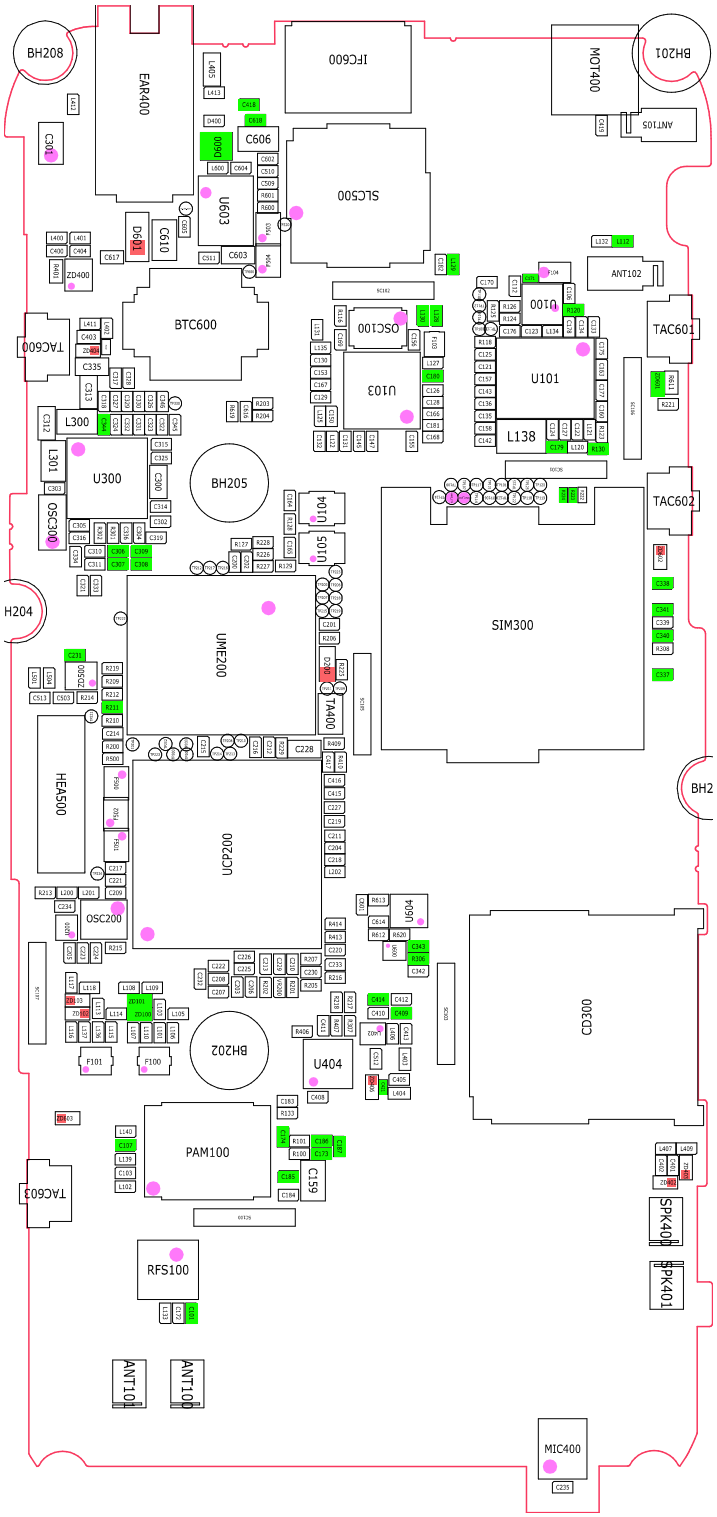
8-2. PCB Diagrams

8-2-1. Top



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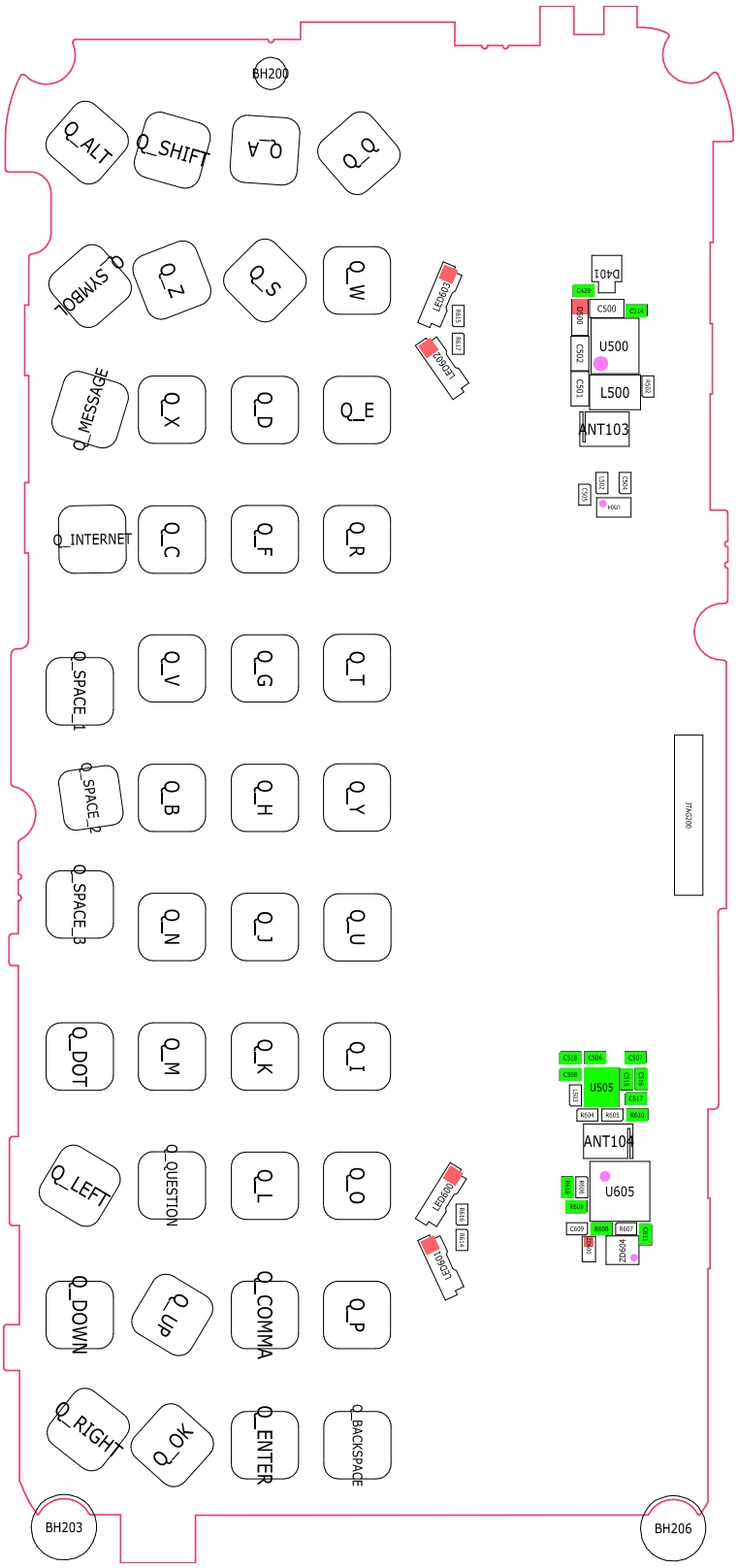
8-2-1. Bottom



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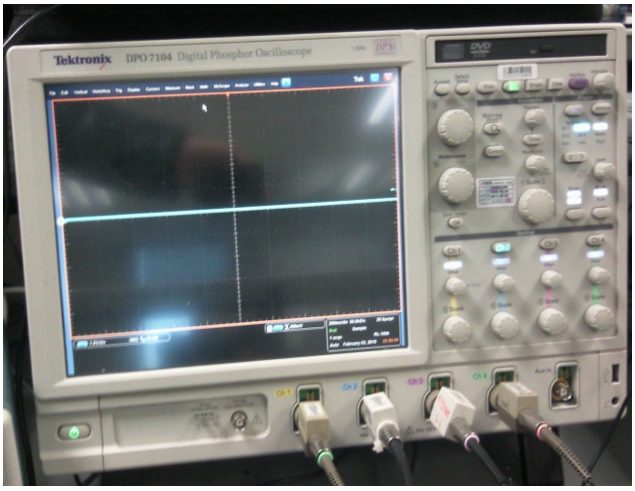
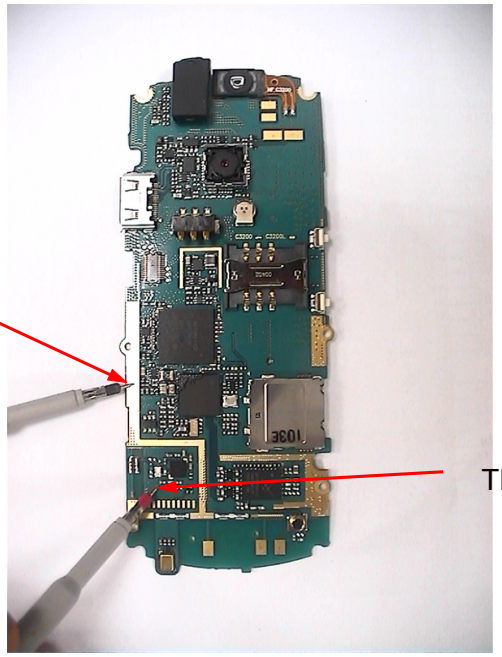
8-3. Flow Chart of Troubleshooting

⁀ presetting methods for checking TP

- GND & TP(exp. VBAT=**C159, C184**) using Oscilloscope
- look over the coming out signal.



¬ Oscilloscope



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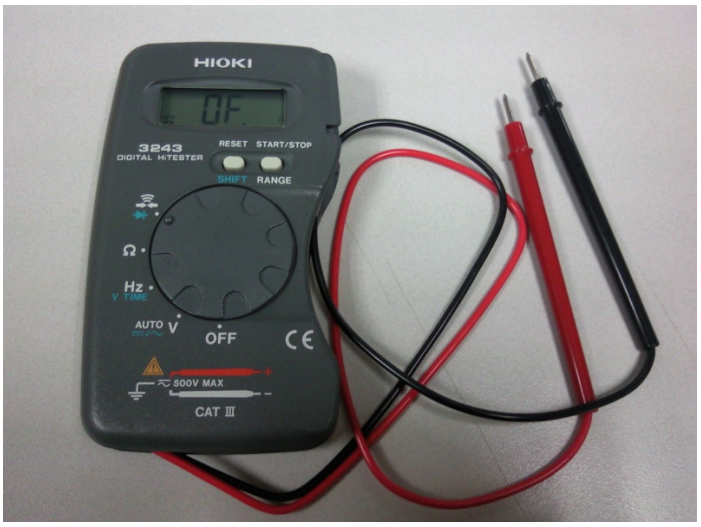
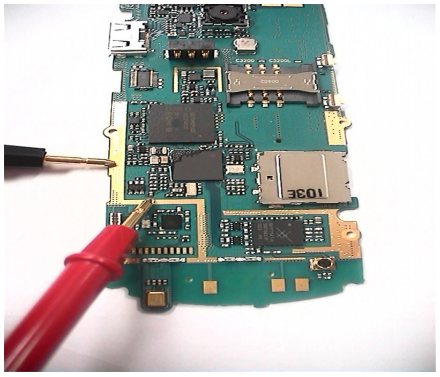


ㄱ Multi-meter



ㄱ Checking the TP(test point) using Multi-meter

- EX) to look up the TP, shunt Cap.

- if checking the GND, you can listen "beep"
  if checking the Signal, you can't listen it.

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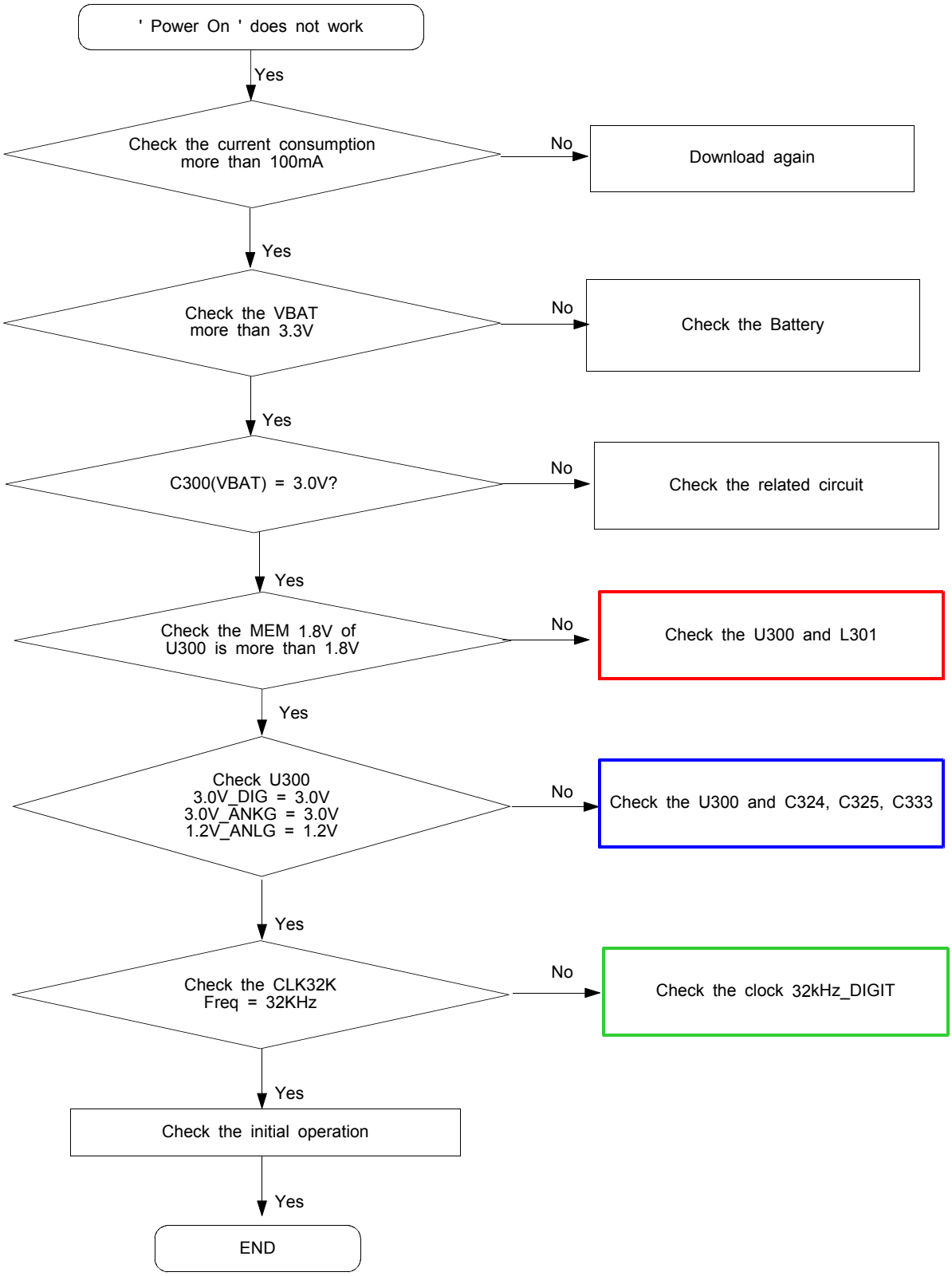
8-3-1. Power On



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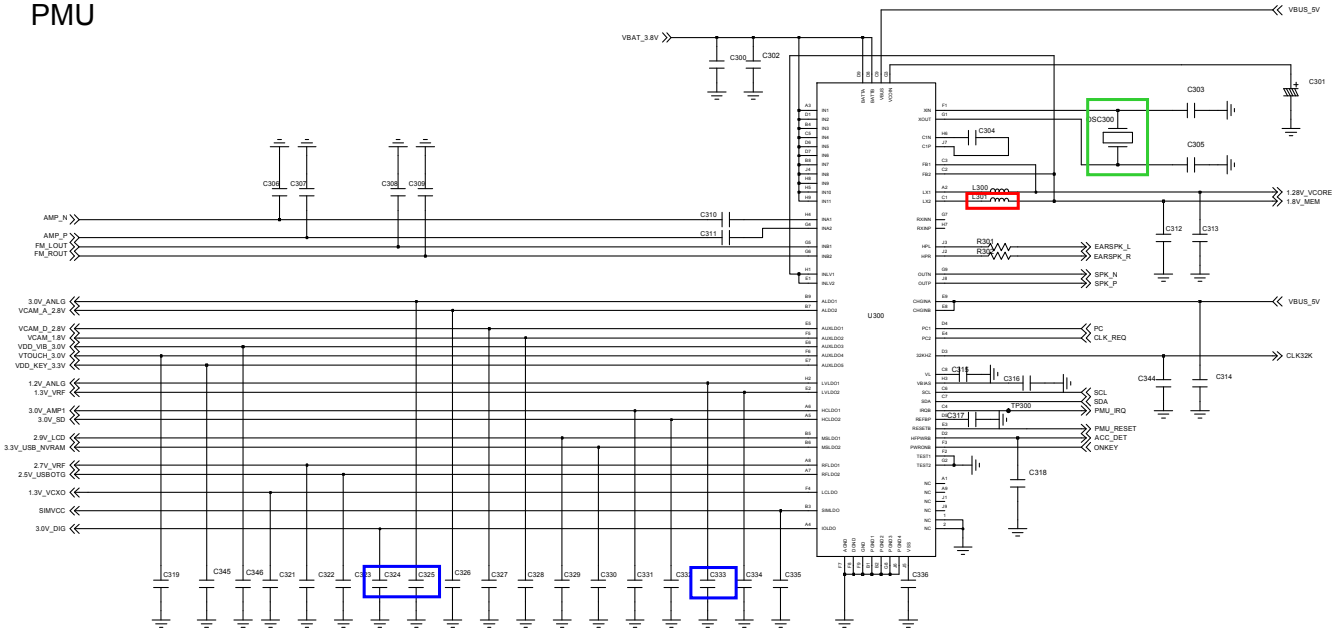
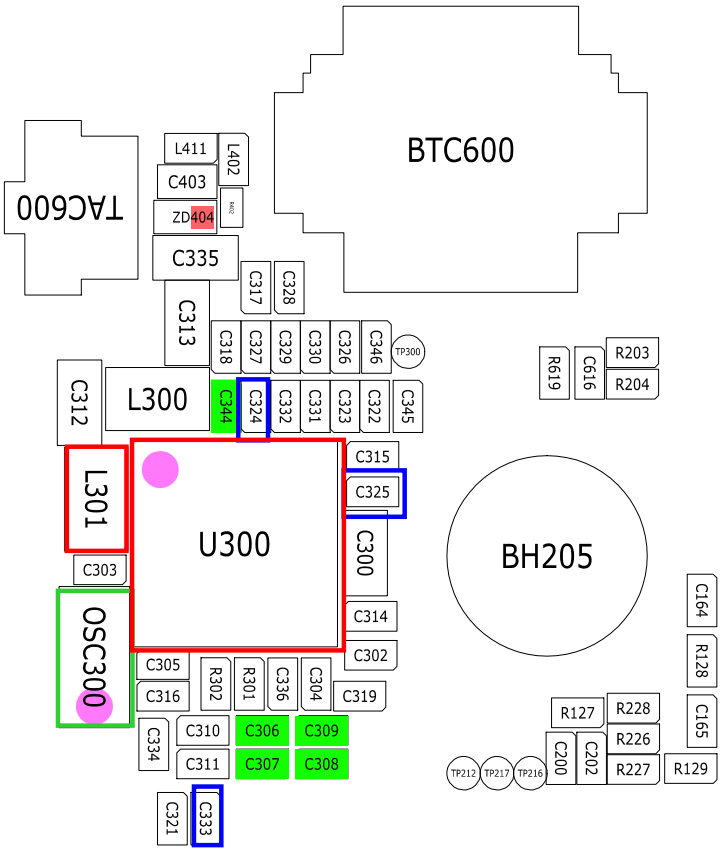
PMU





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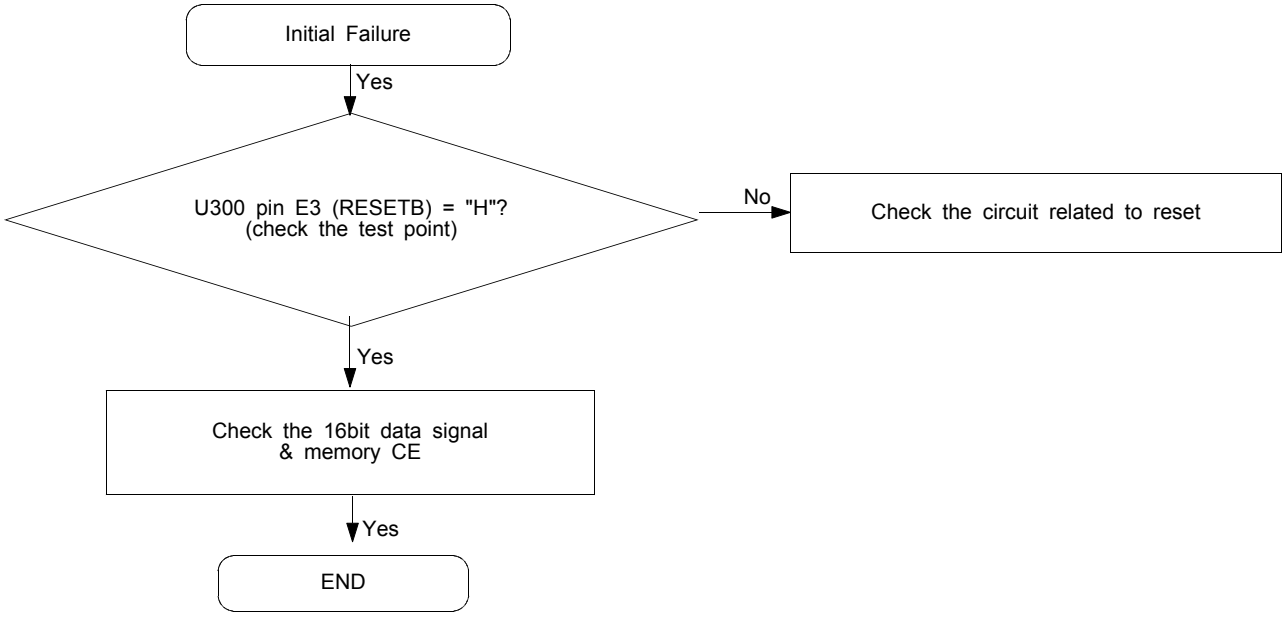
8-3-2. Initial



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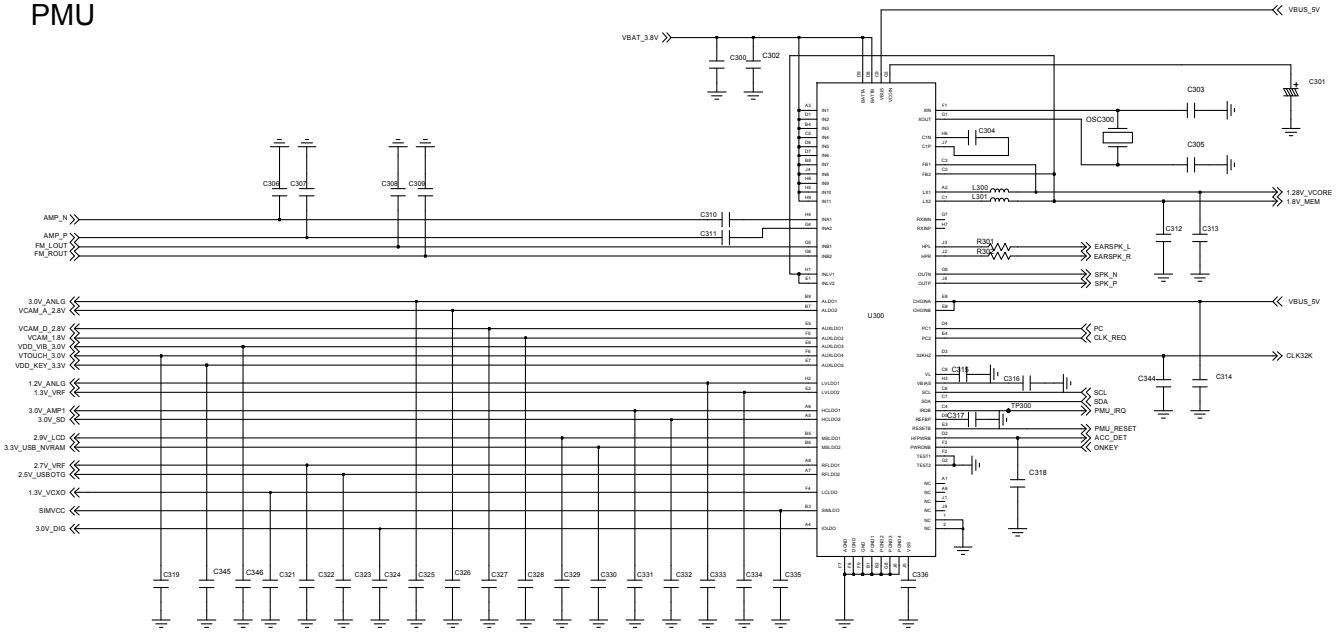
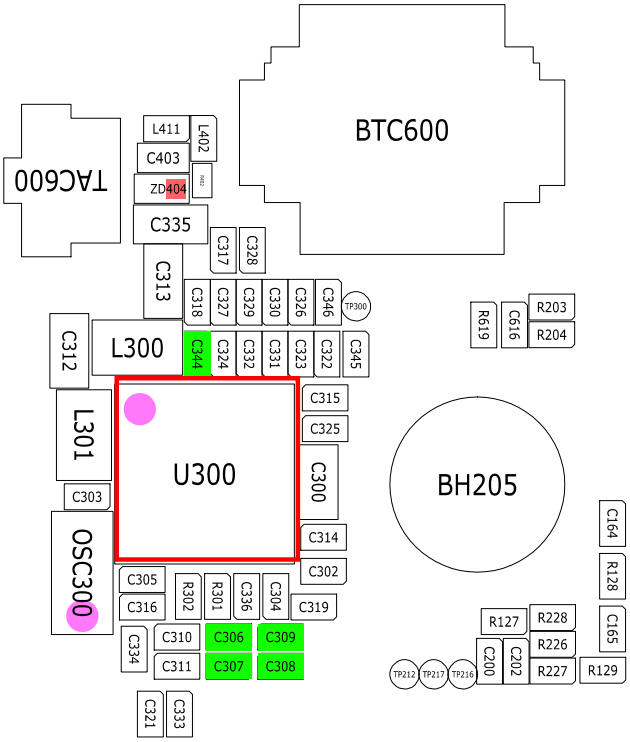
PMU





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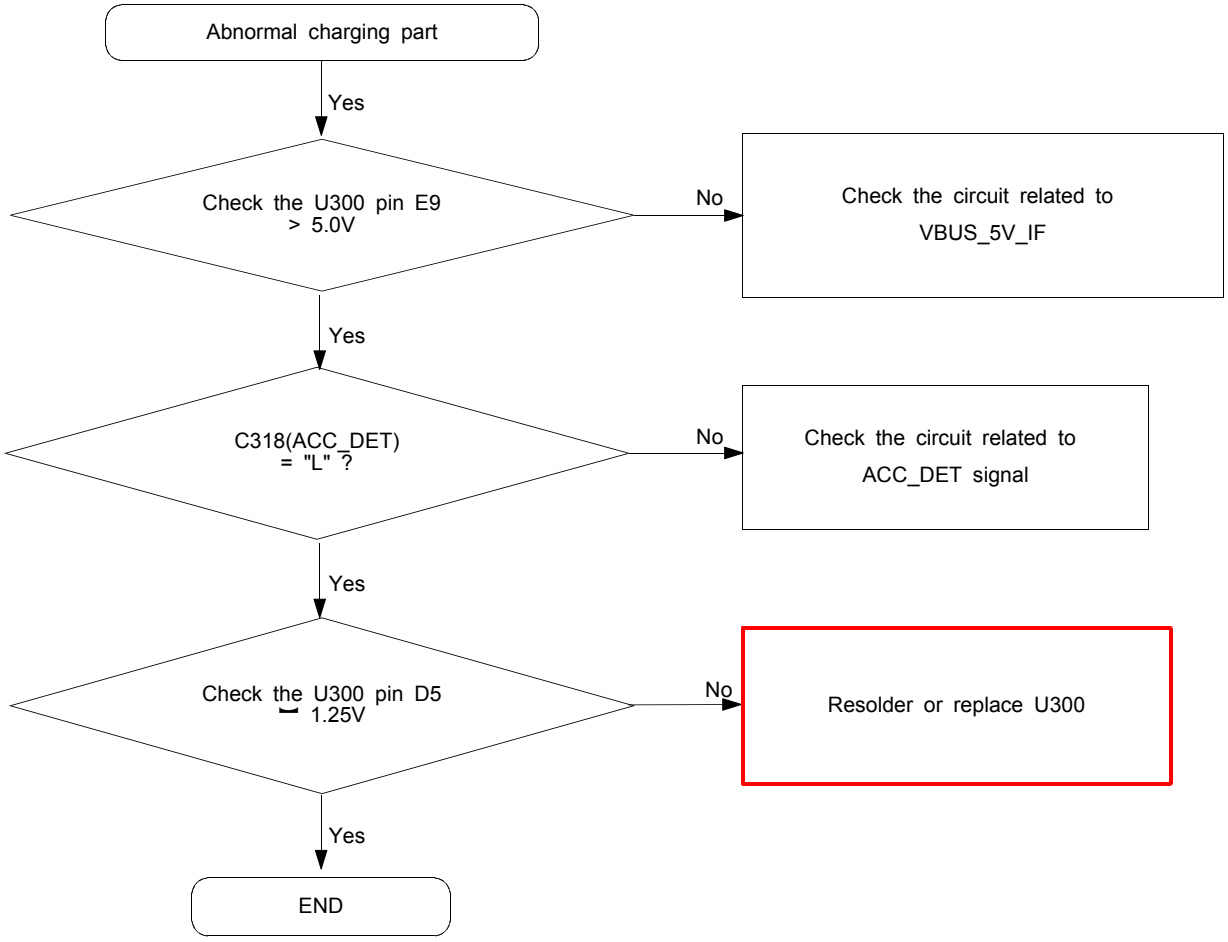
8-3-3. Charging Part



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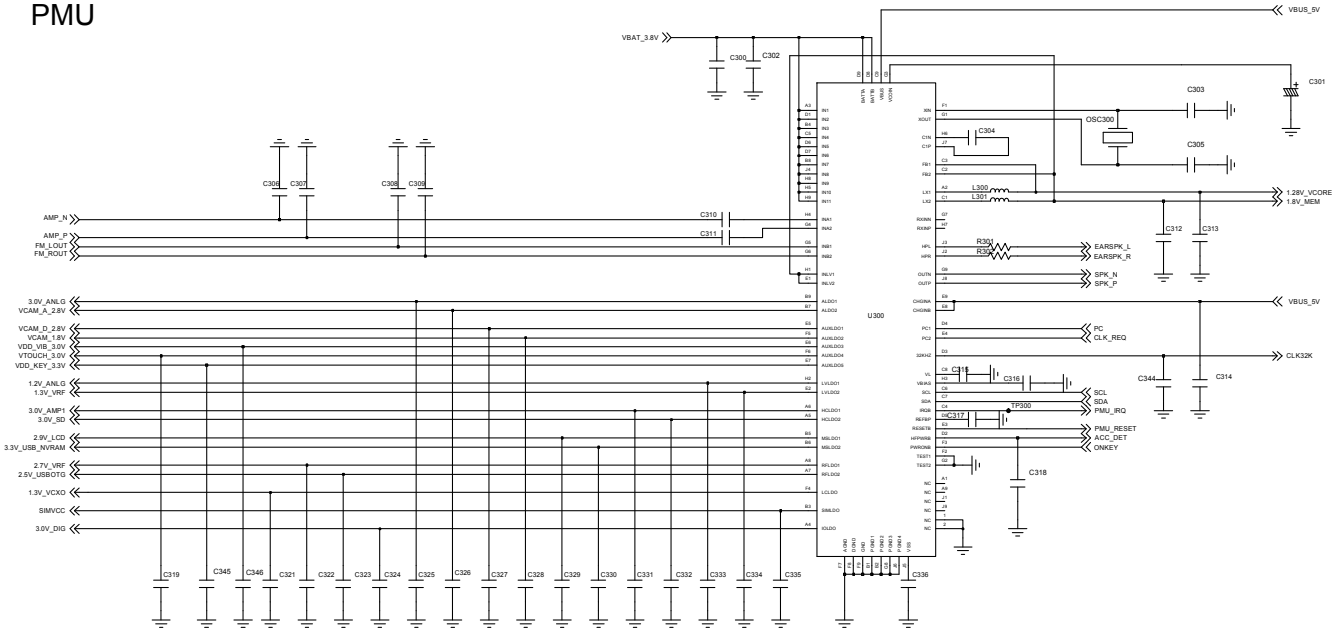
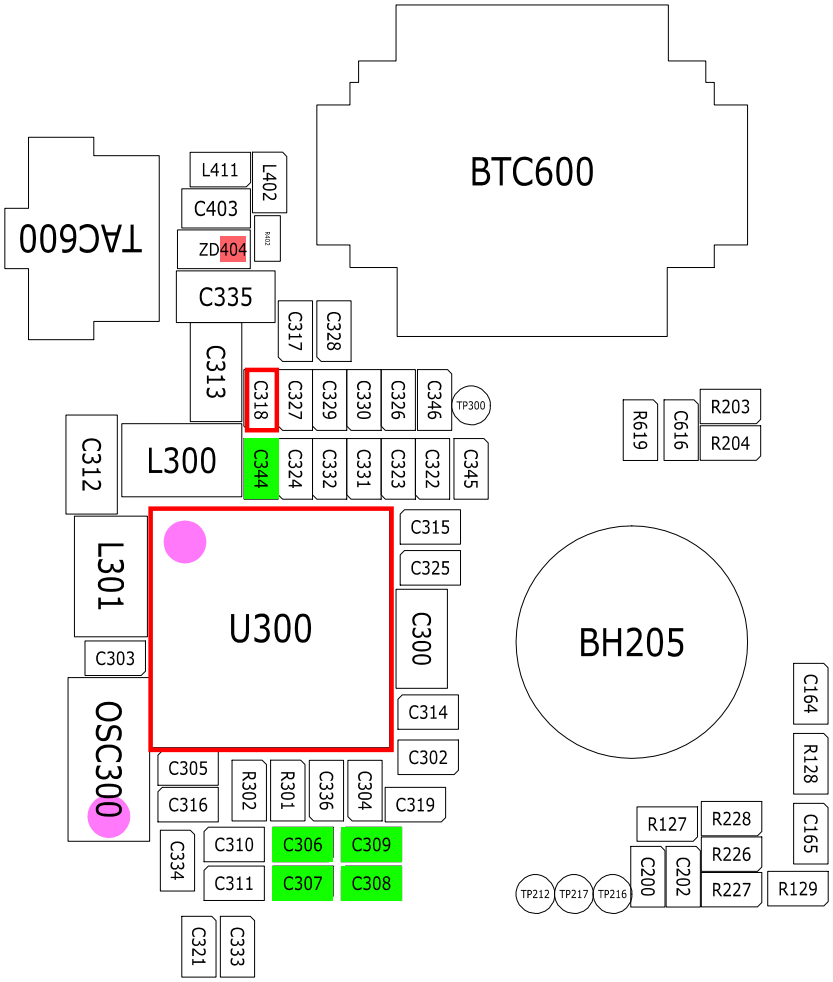
PMU





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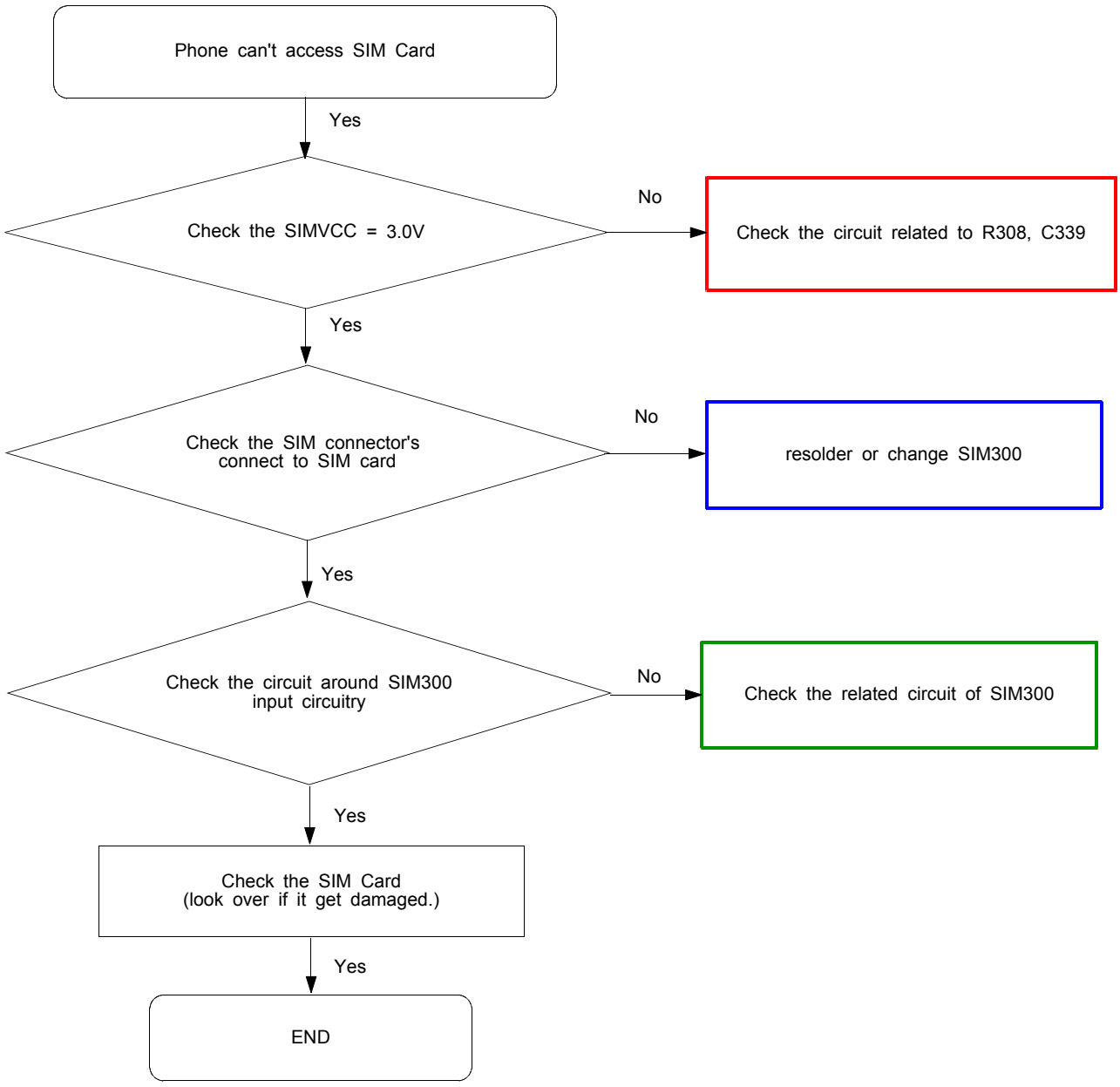
8-3-4. Sim Part



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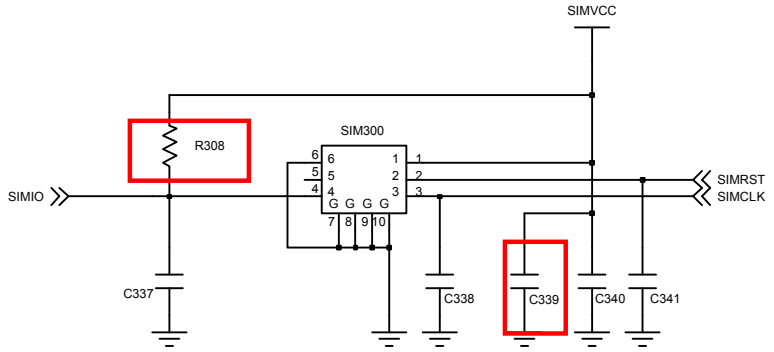
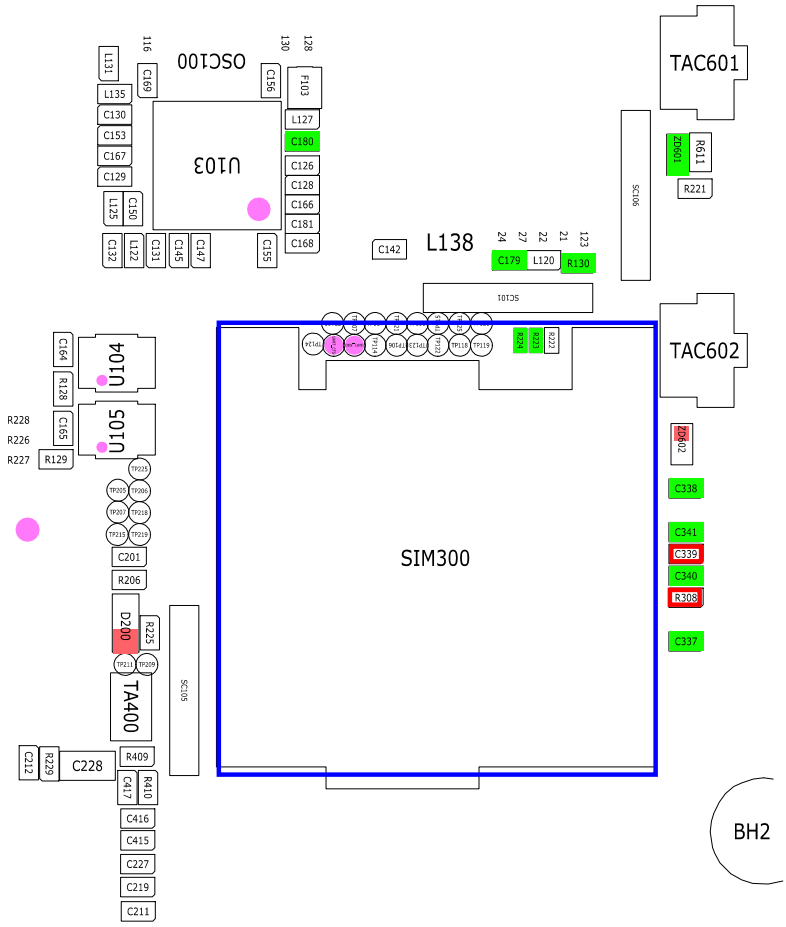
SIM SOCKET





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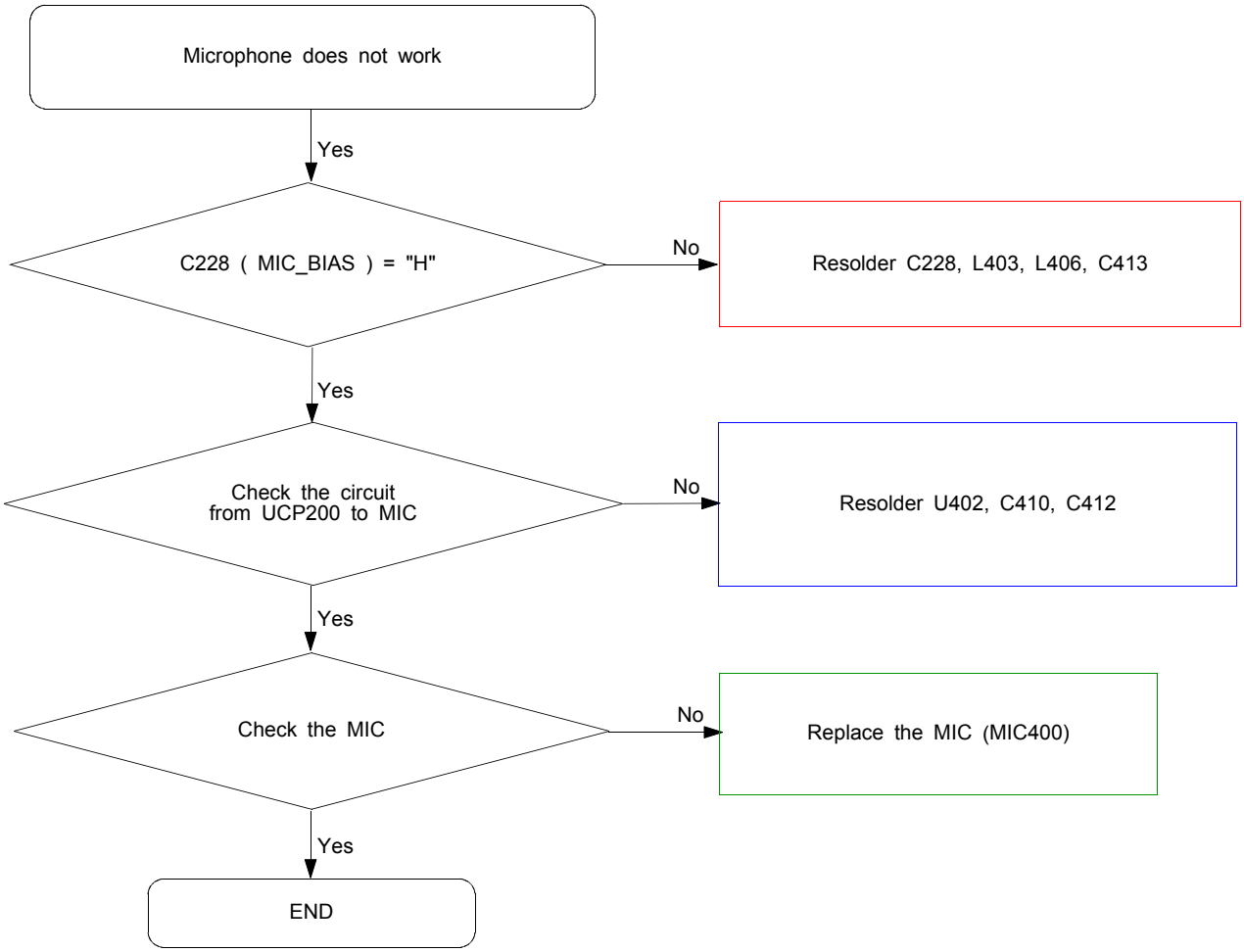
8-3-5. Microphone Part



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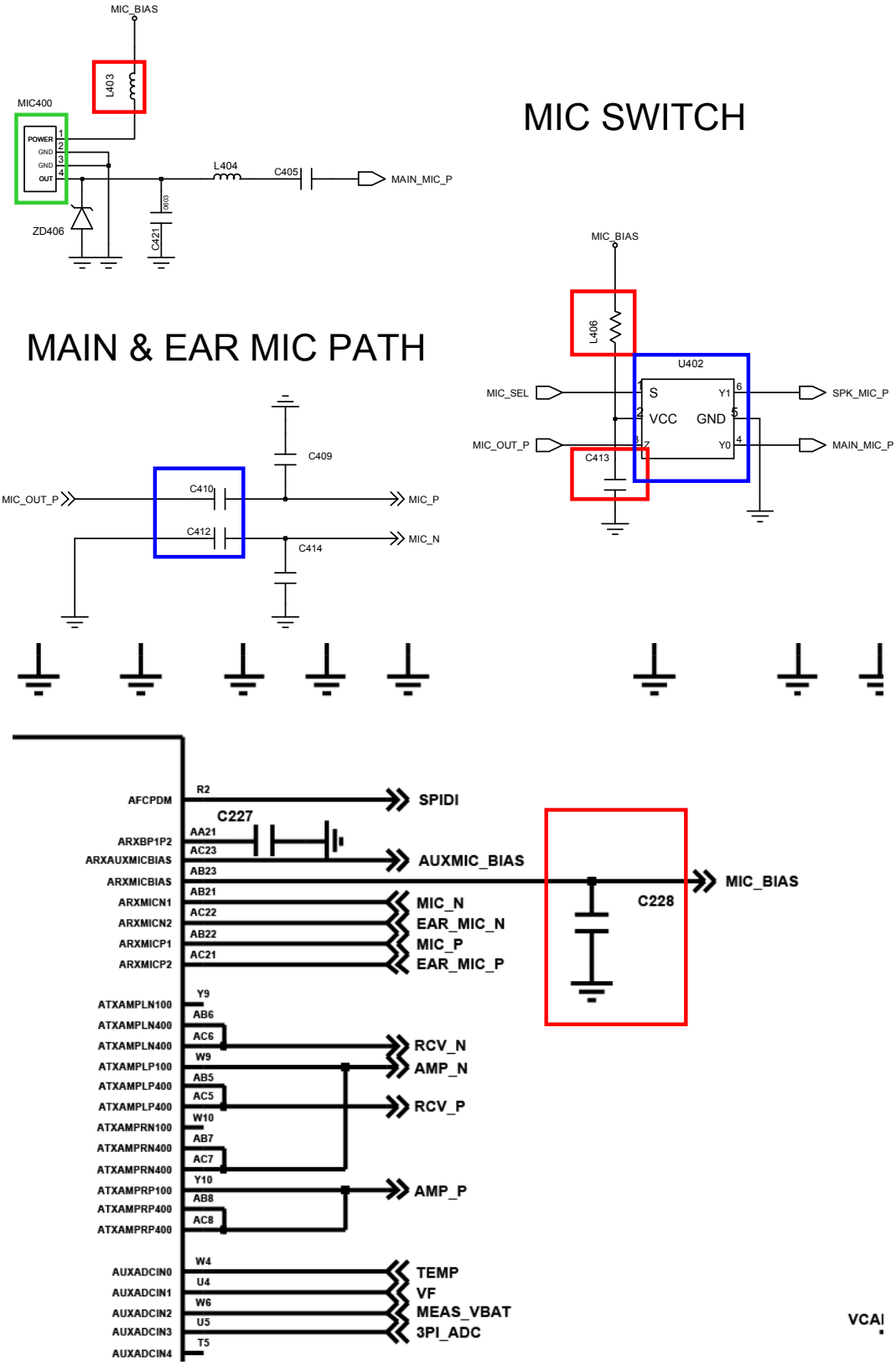

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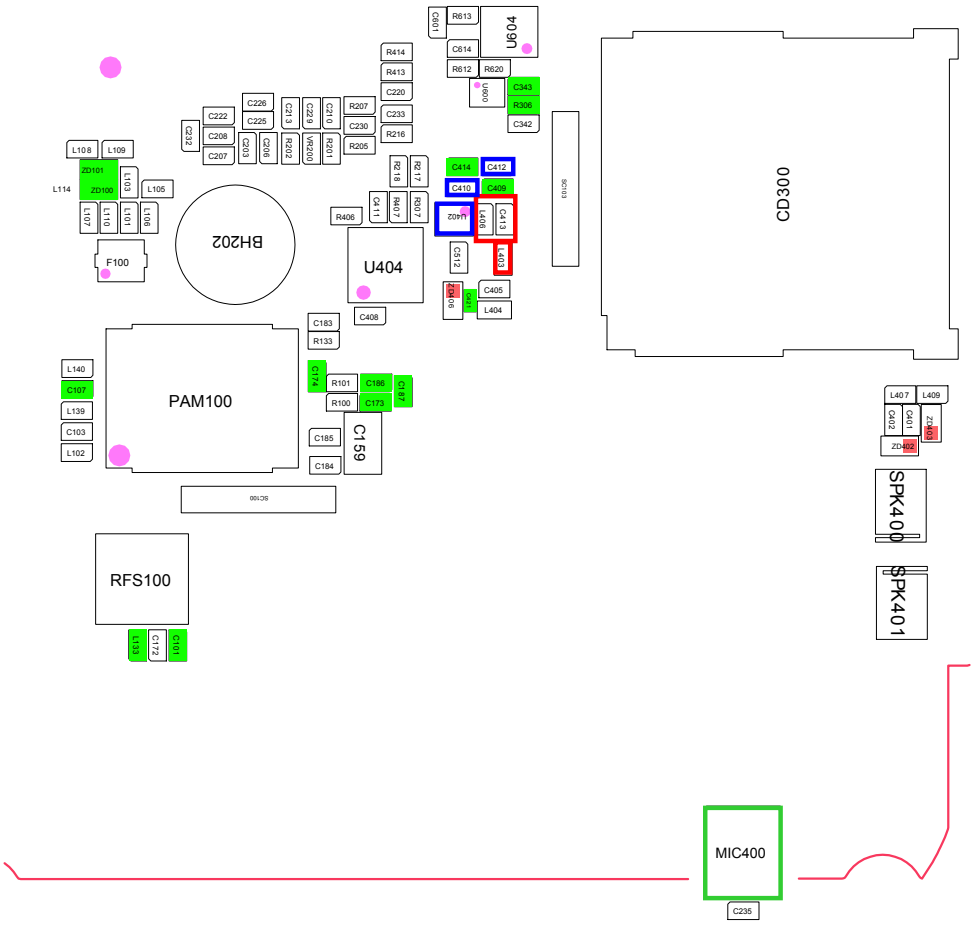

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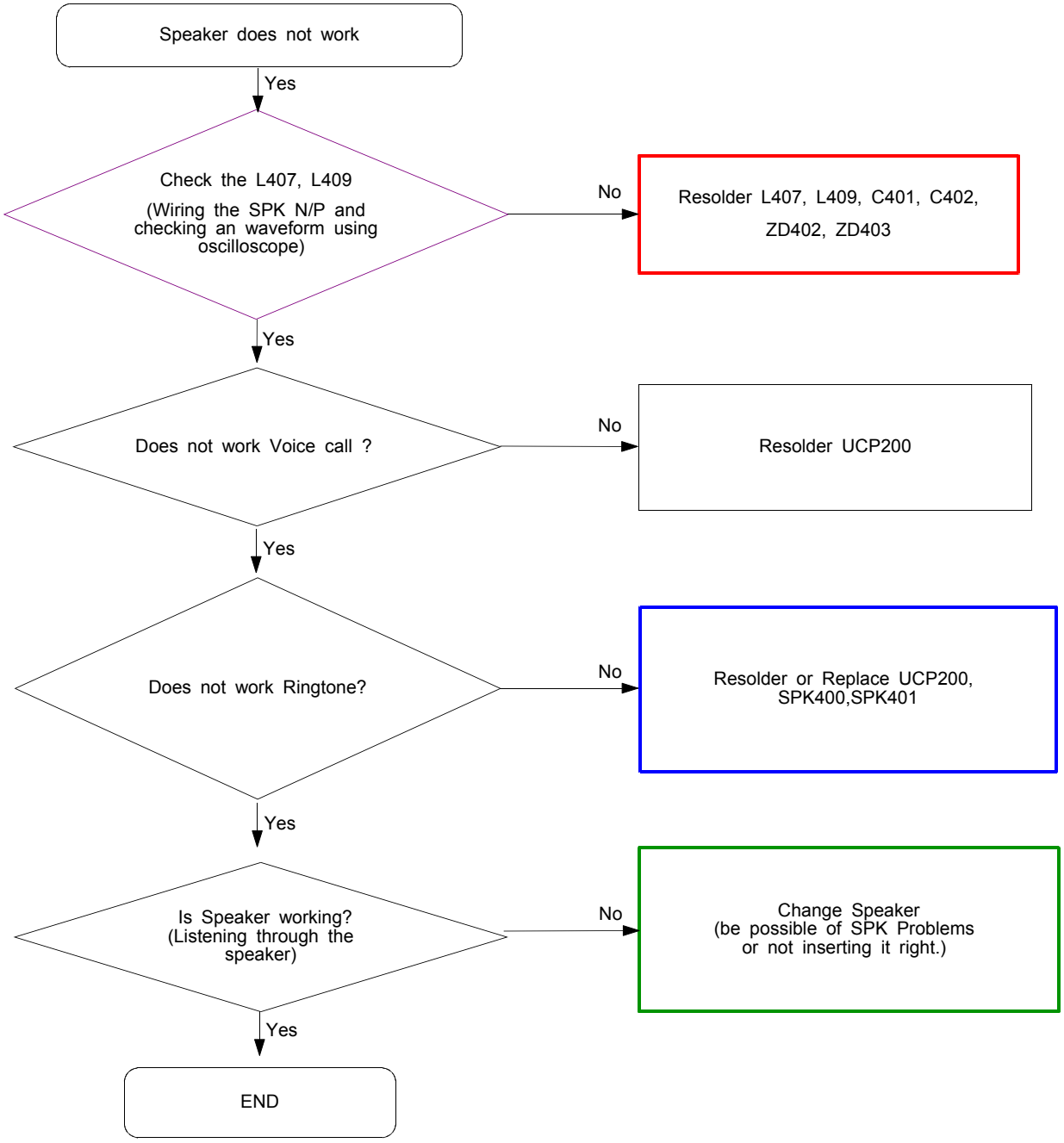
8-3-6. Speaker Part



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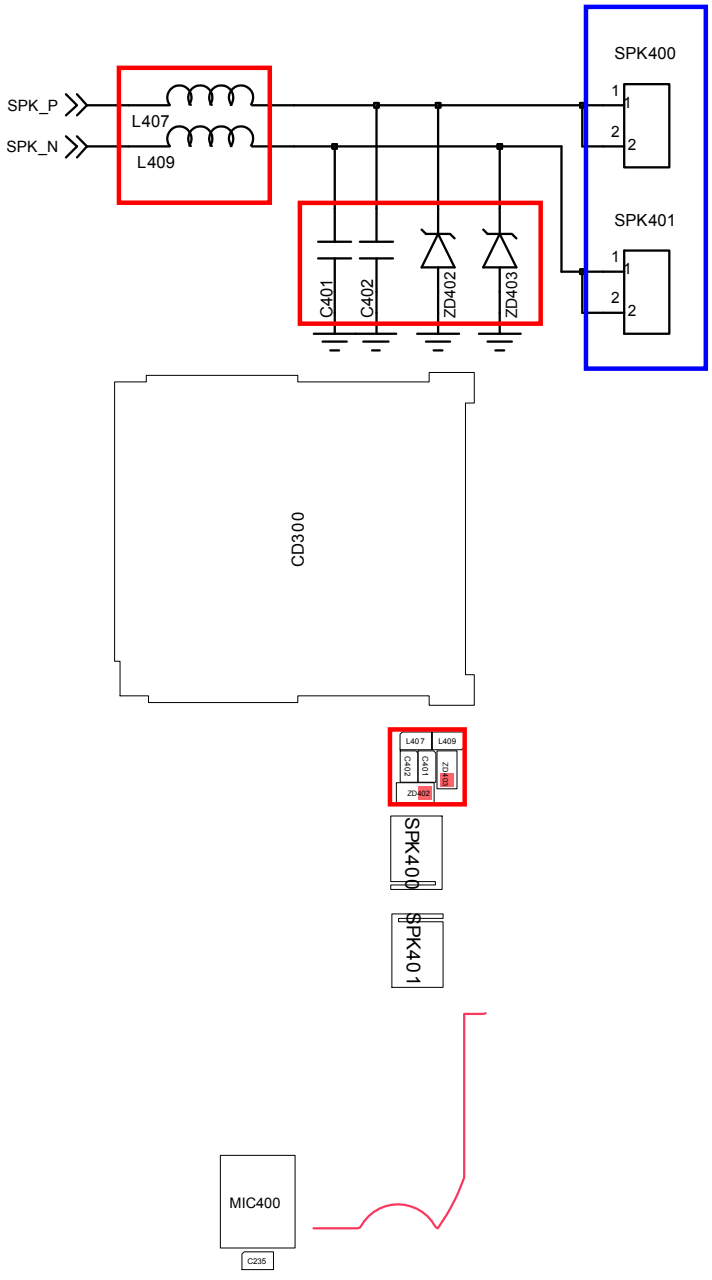
SPK



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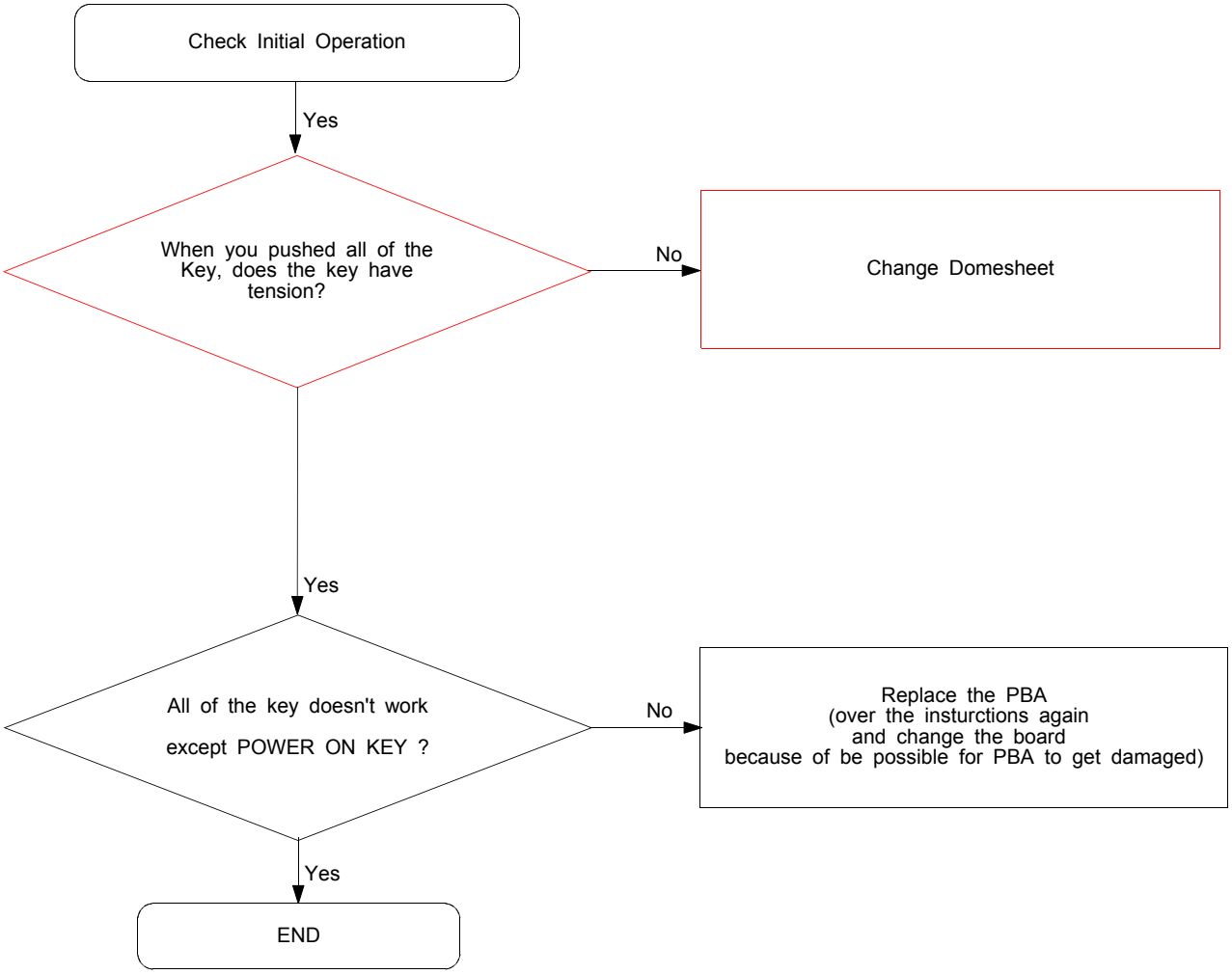
8-3-7. Key Data Input


Check Initial Operation
Yes
When you pushed all of the Key, does the key have tension?
No
Change Domesheet
Yes
All of the key doesn't work except POWER ON KEY ?
No
Replace the PBA (over the insturctions again and change the board because of be possible for PBA to get damaged)
Yes
END

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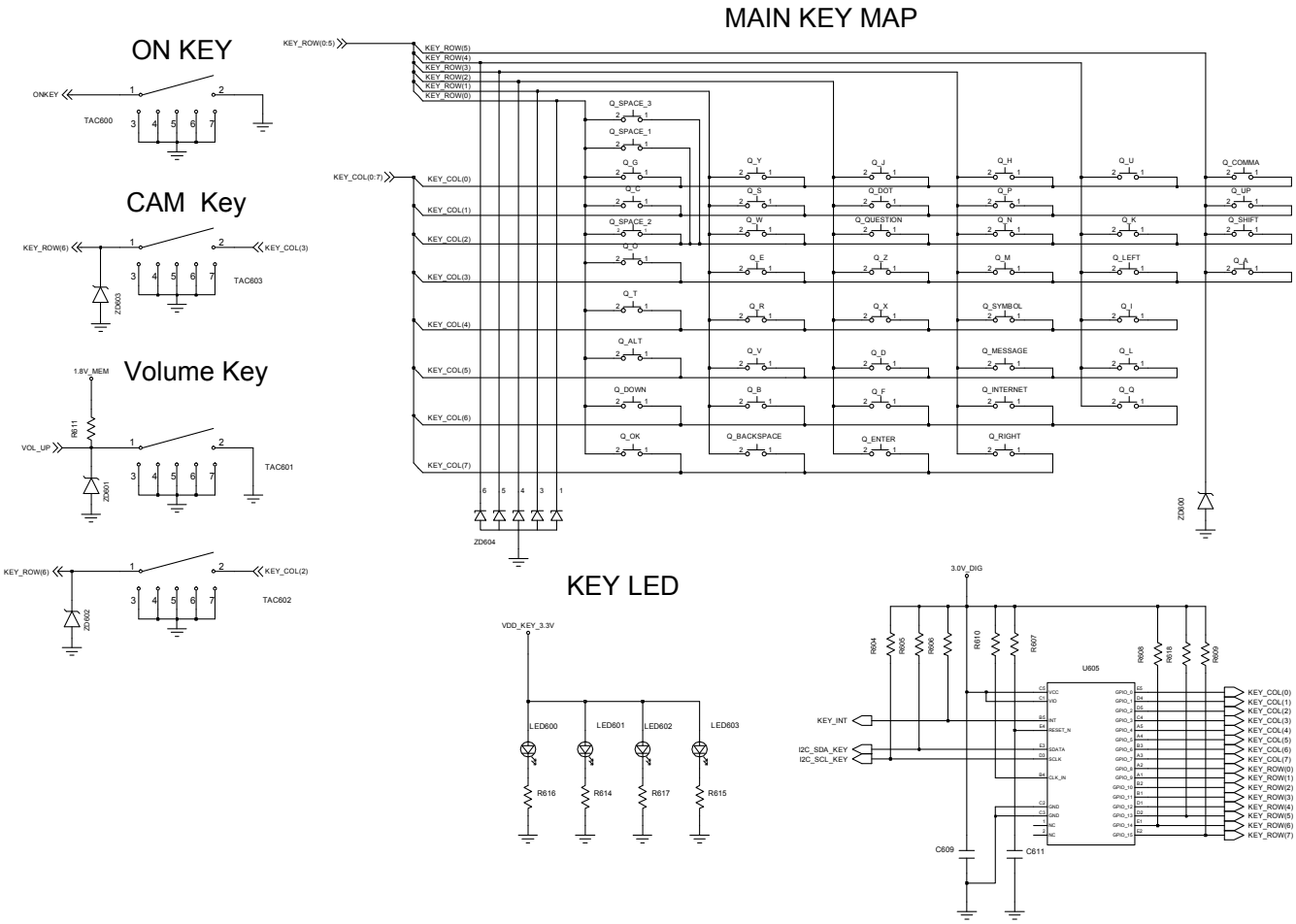

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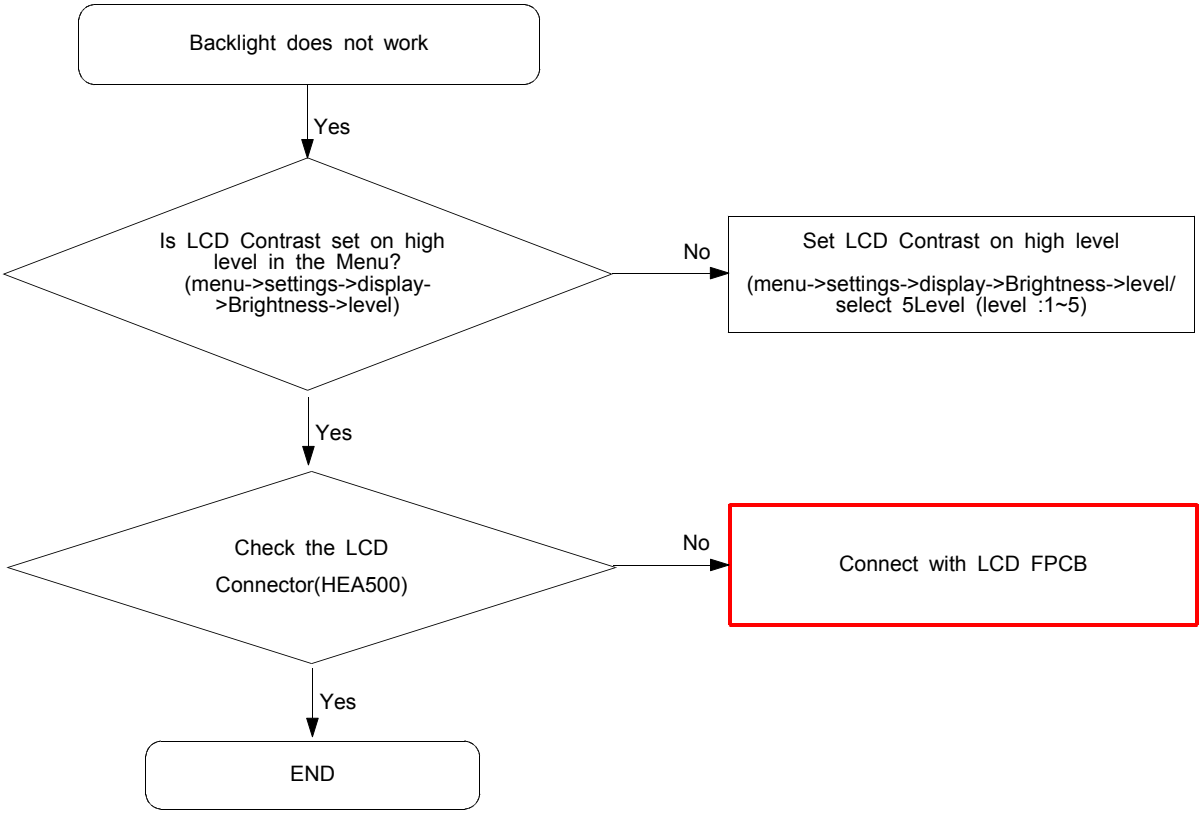
8-3-8. LCD



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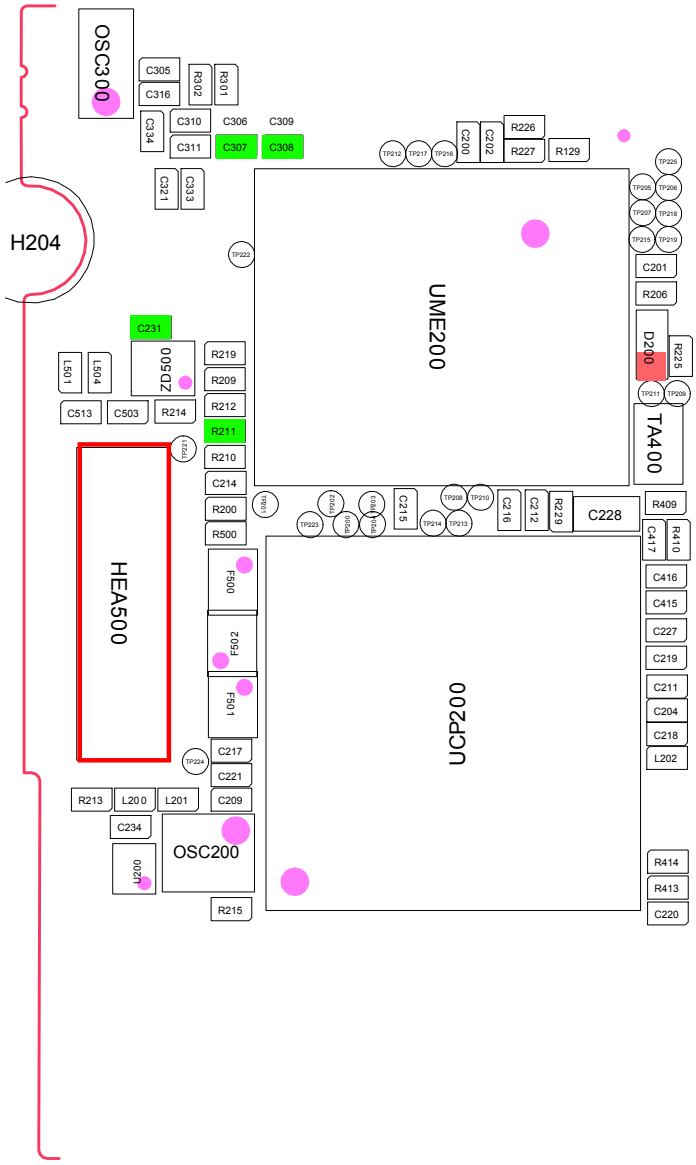

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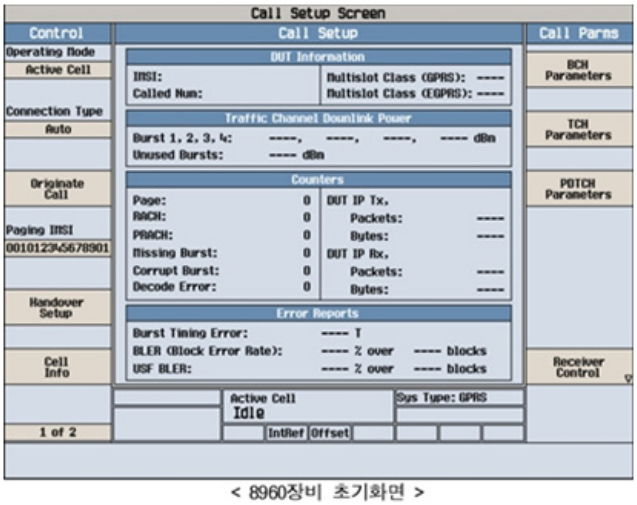
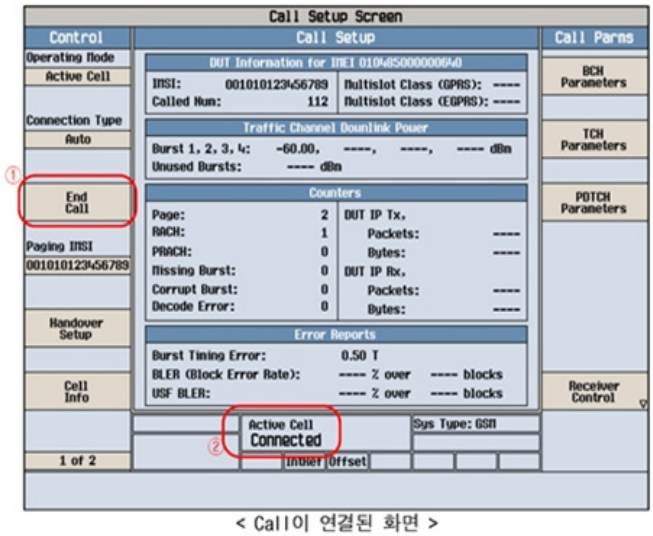
⌒ presetting 8960



< 8960장비 초기화면 >

(Rx setting)

1. Active Cell
   : select GSM or GPRS
2. Connetion Type
   : select Auto(GSM), BLER(GPRS)
3. BCH Parameter
   : select measuring band (DCS or EGSM)
4. Cell power
   : -60dBm



< Call이 연결된 화면 >

(Tx setting)

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⁀ After setting 8960 (EGSM / DCS)

1. After setting, prepare the call setup Display
2. Using an Originate Call, make a call.
3. Confirm the display "connected"
4. start the measuring

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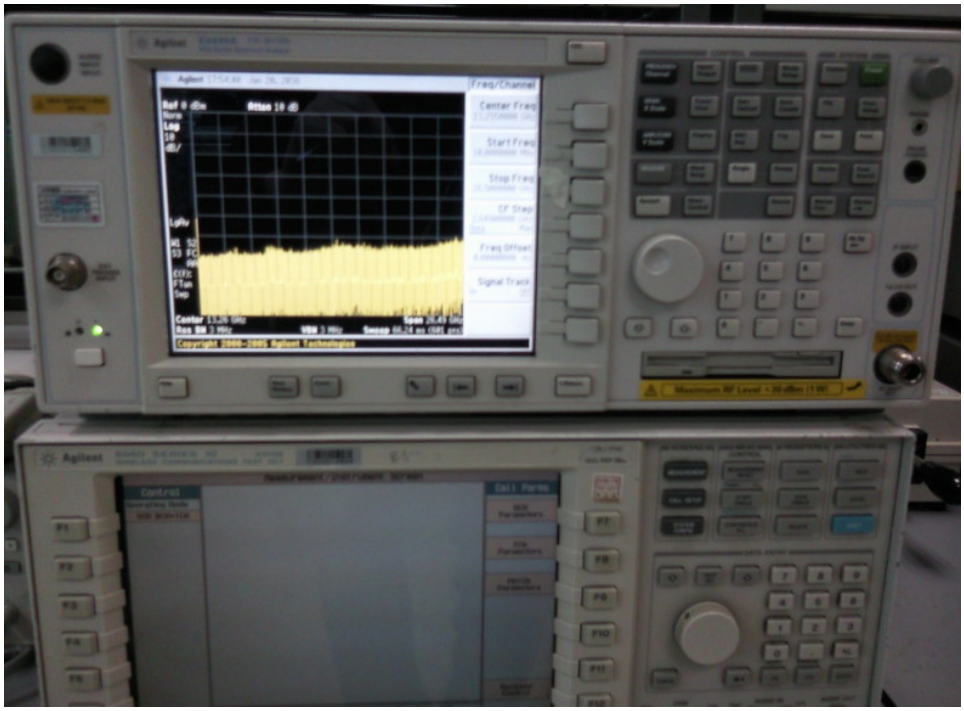
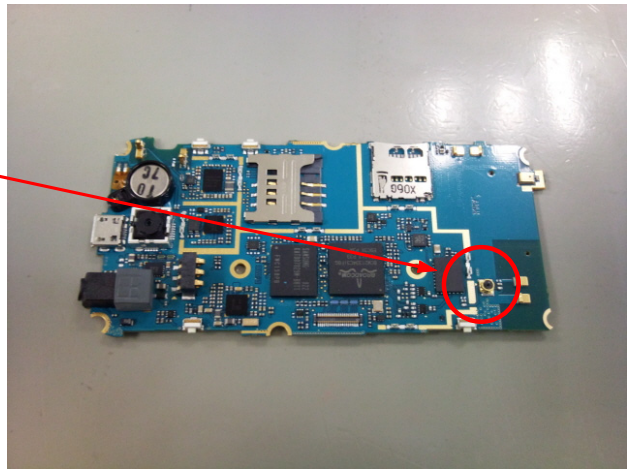
⌒ 8960 & spectrum analyzer (down & up at picture)



- spectrum analyzer : testing method = the way using an Osciliscope

- 8960 : connect using RF Cable between 8960 & RF Connector in board.

RF Connector



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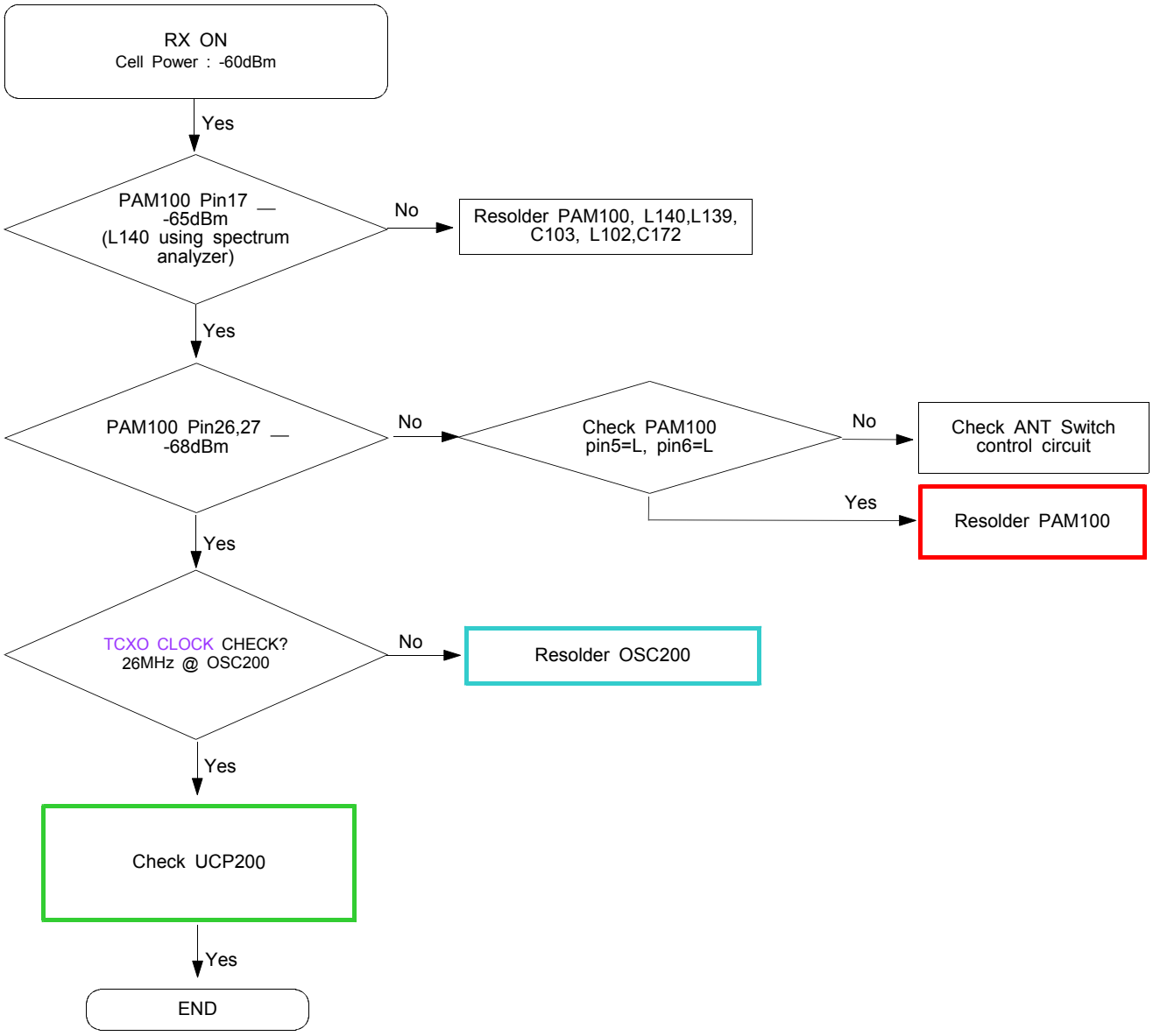
8-3-10. GSM850 Receiver



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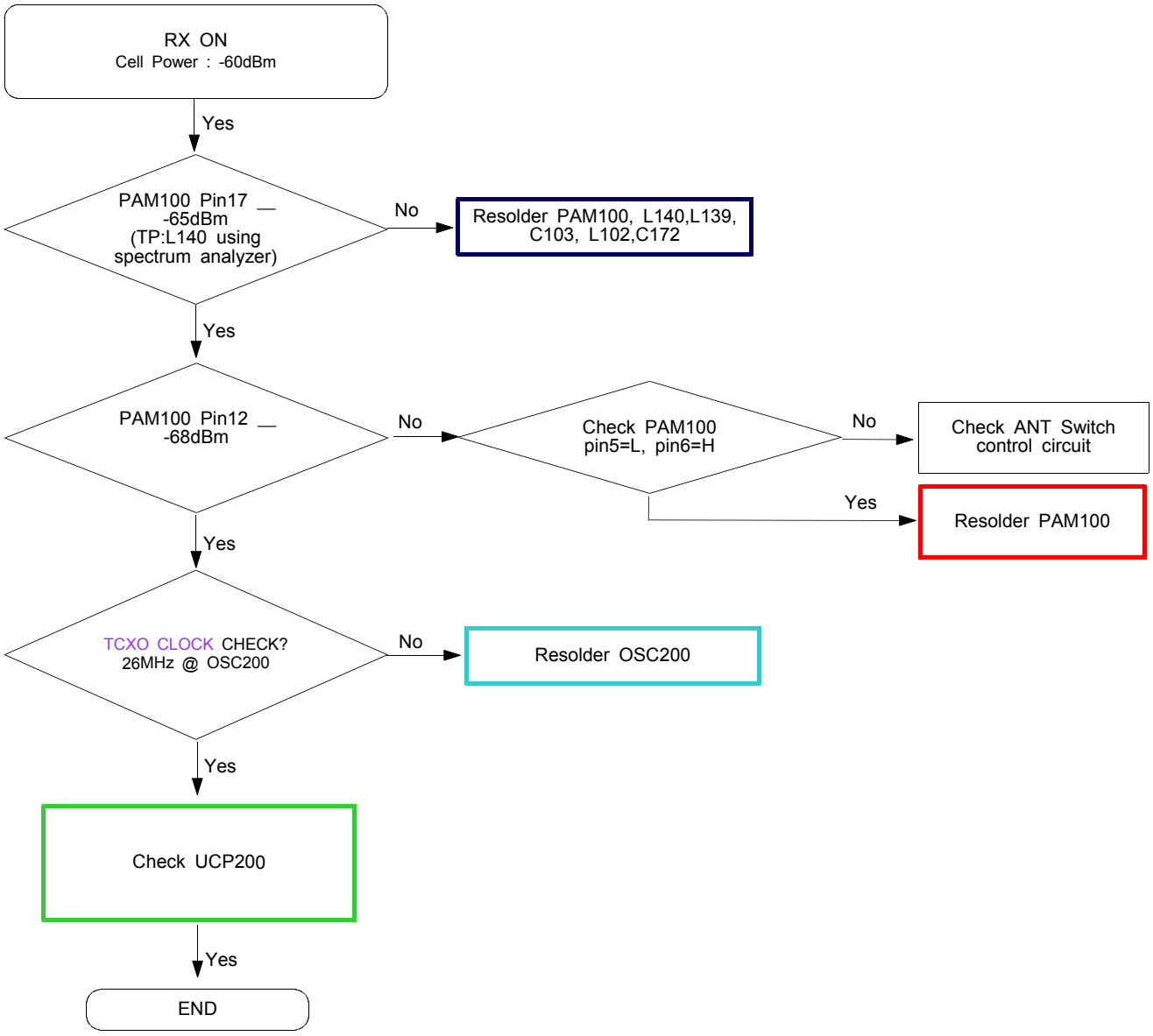
8-3-11. GSM900 Receiver



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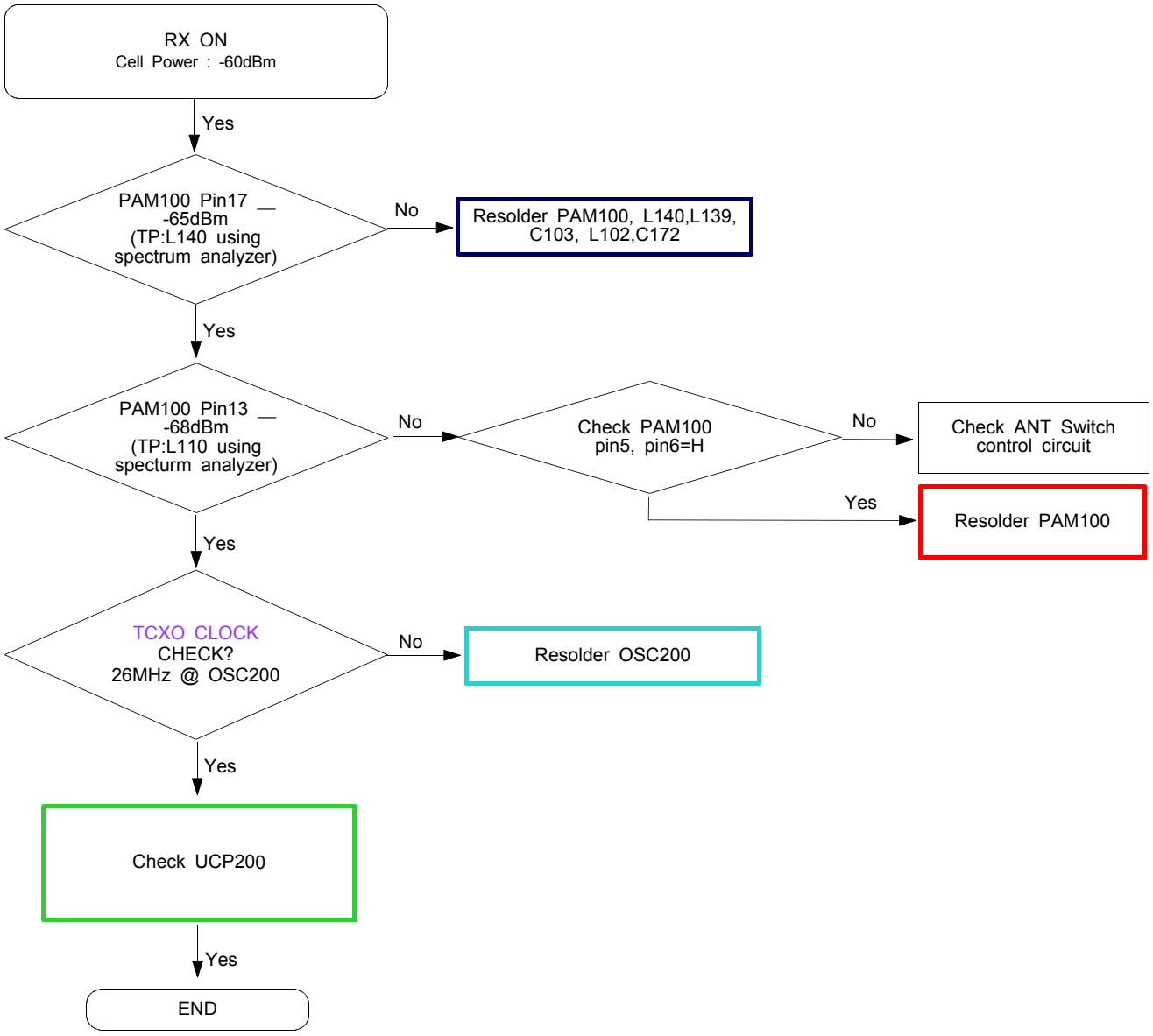
8-3-12. DCS Receiver



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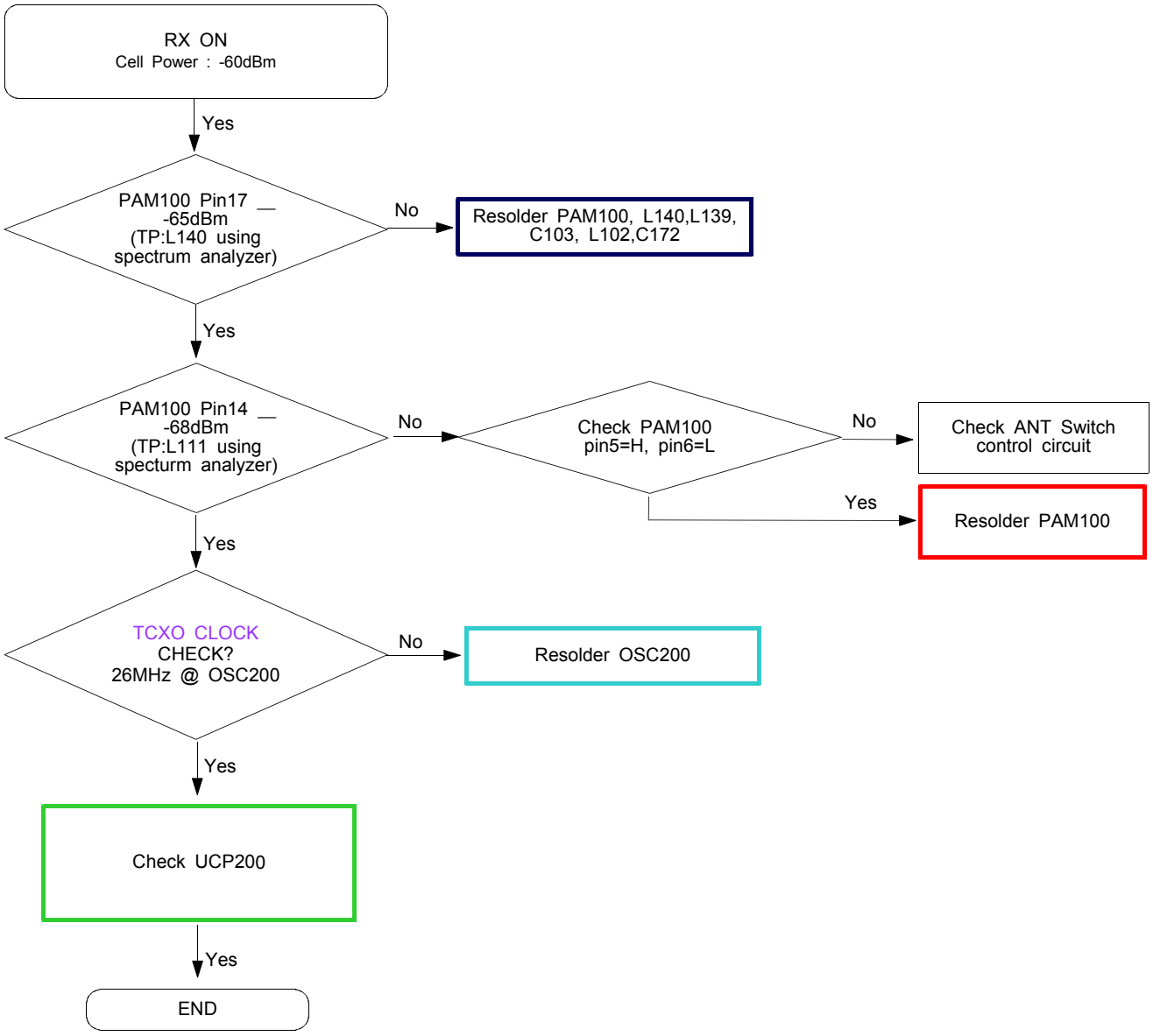
8-3-13. PCS Receiver



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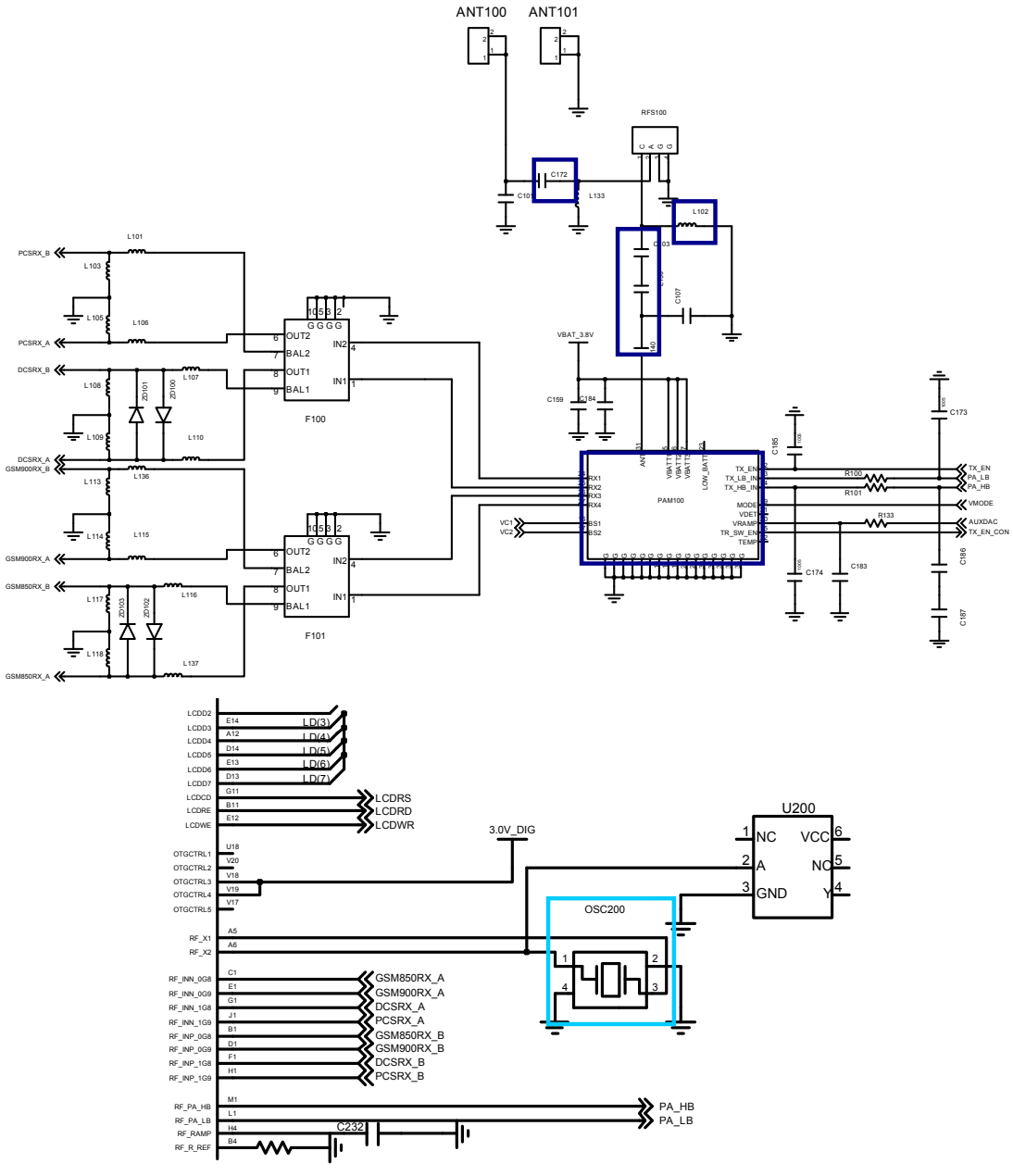
RF (2.5G)



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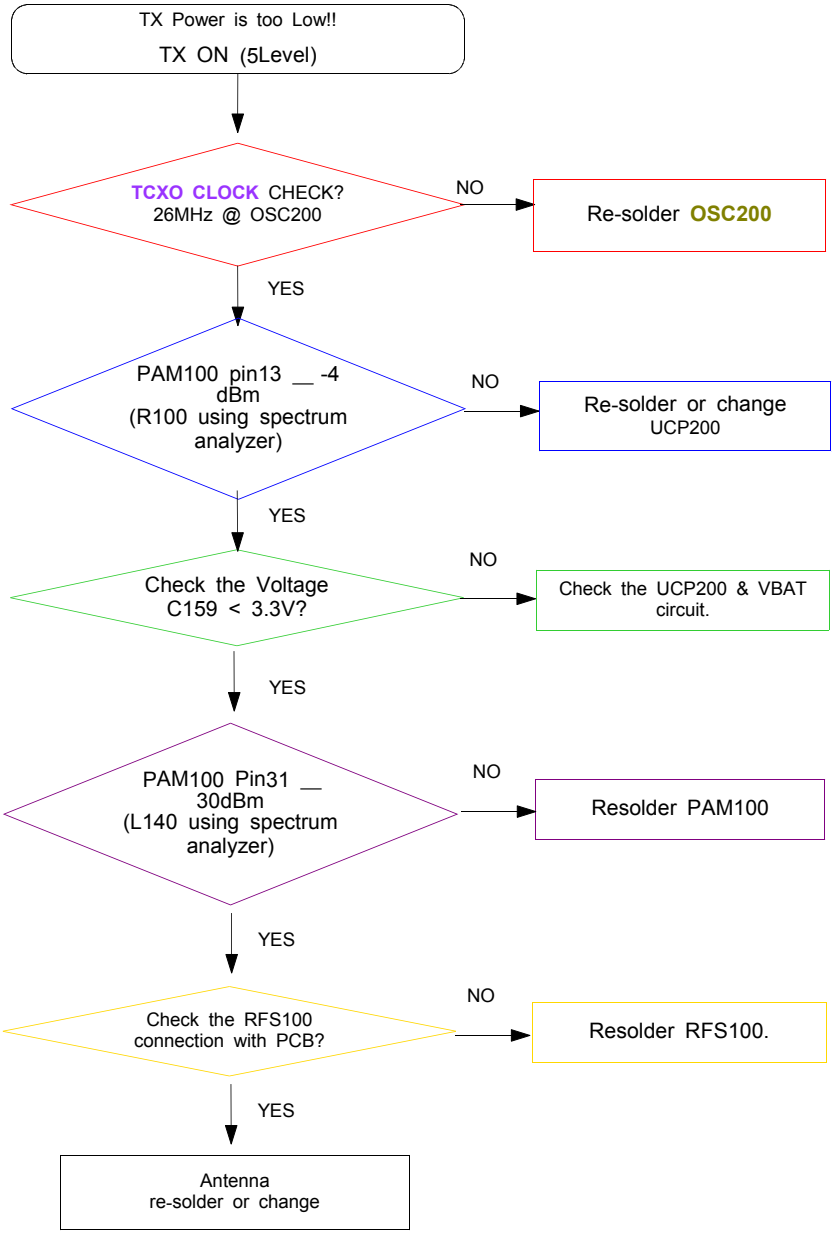
8-3-14. GSM850/GSM900 Transmitter



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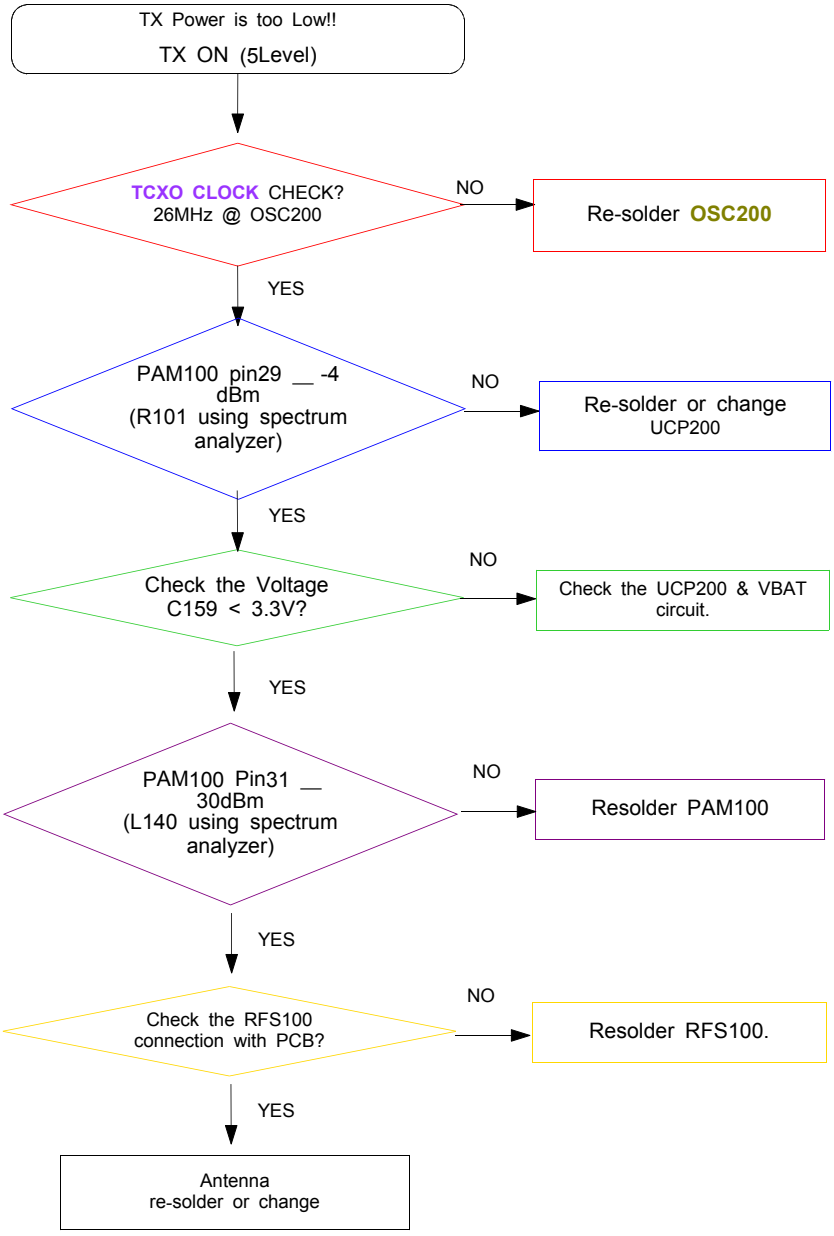
8-3-15. DCS/PCS Transmitter



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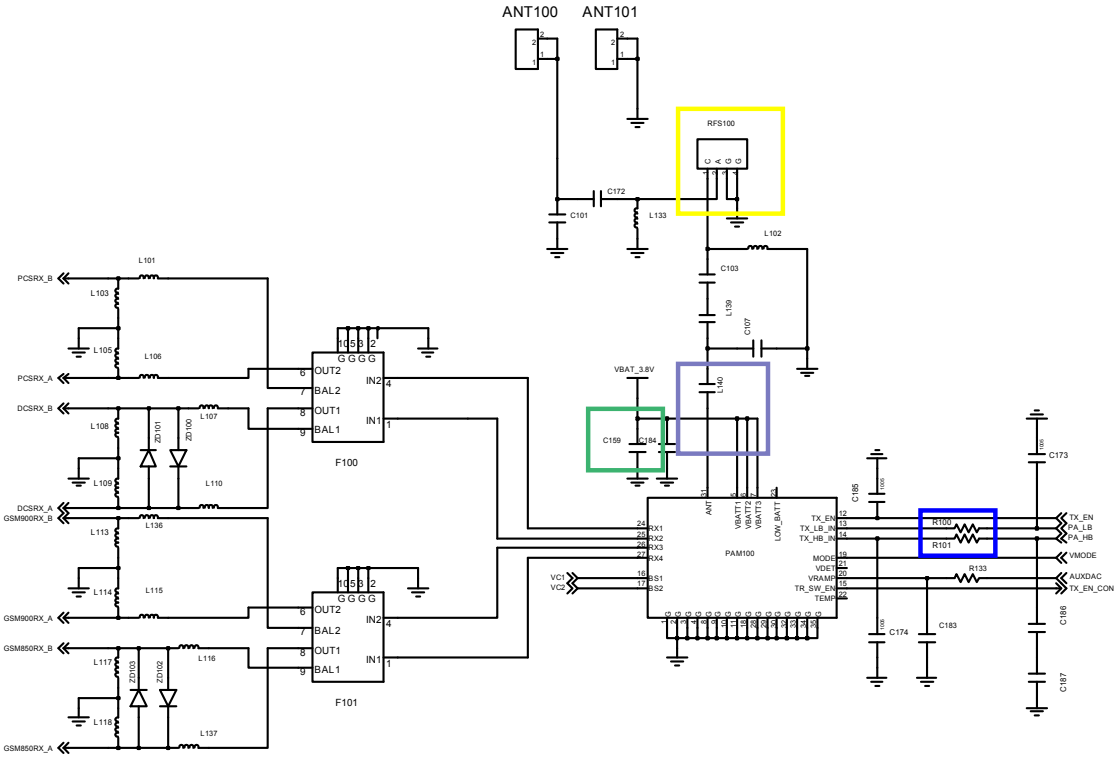
RF (2.5G)



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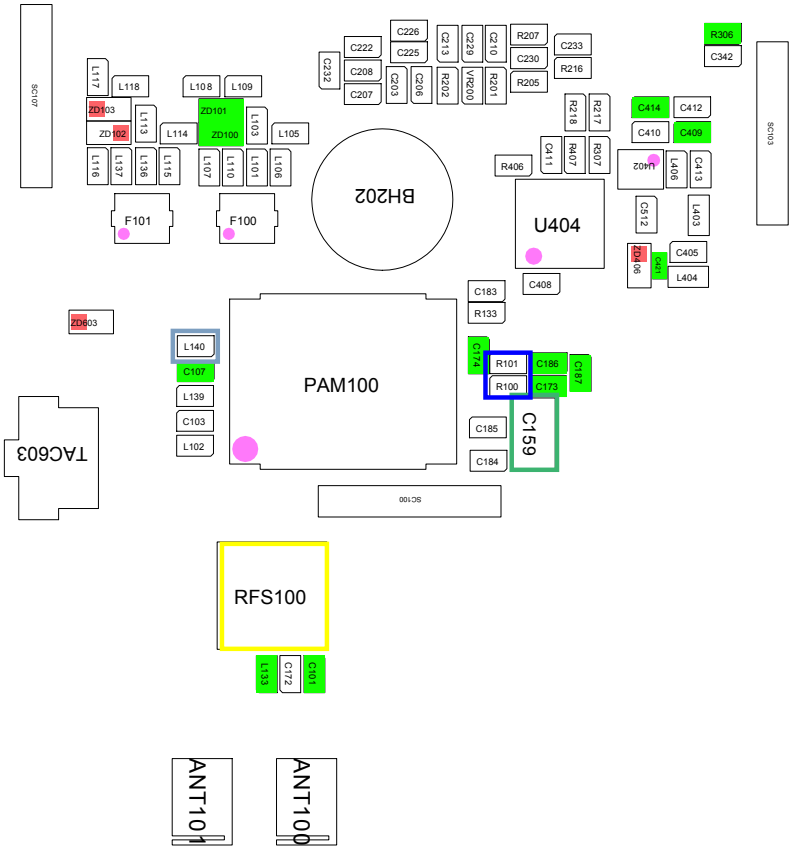

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8-4. Service Schematics

- NC Point(Top View)

● : NC

U300

	1	2	3	4	5	6	7	8	9
A	..	.	.	.	.	.	.	.	..
B	.	.	.	.	.	.	.	.	.
C	.	.	.	.	.	.	.	.	.
D	.	.	.	.	.	.	.	.	.
E	.	.	.	.	.	.	.	.	.
F	.	.	.	.	.	.	.	.	.
G	.	.	.	.	.	.	.	.	.
H	.	.	.	.	.	.	.	.	.
J	..	.	.	.	.	.	.	.	..

UME200

	1	2	3	4	5	6	7	8	9
A	.	.	..	..	.	.	.	.	..
B	..	.	.	.	.	.	..	.	.
C	..	.	.	.	.	..	.	.	.
D	.	.	.	.	.	.	.	.	.
E	.	.	.	.	.	.	.	.	.
F	..	.	.	.	.	.	.	.	.
G	.	.	.	.	.	.	.	.	..
H	.	.	.	.	.	.	.	.	..
J	..	..	.	.	.	.	.	.	.
K	..	.	..	..	..	.	..	.	.
L	..	.	.	.	.	.	.	.	.
M	..	..	..	..	..	..	..	..	..

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UCP200

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A	·	·	··	··	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
B	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
C	·	·																				·	·
D	·	·		·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·		·	·
E	·	·		·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·		·	·
F	·	·		·	·	·	·	··	·	·	·	·	·	·	·	·	·	·	·	·		·	·
G	·	·		·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·		·	·
H	·	·		·	·	·	·	·	·	·	·	·	·	·			·	·	·	·		·	·
J	·	·		·	·	·	·										·	·	·	·		·	·
K	·	·		·	·	·	·										·	·	·	·		·	·
L	·	·		·	·	·	·			·	·	·	·	·			·	·	·	·		·	·
M	·	·		·	·	·				·	·	·	·	·			·	·	·	·		·	·
N	·	·		·	·	·	·			·	·	·	·	·			·	·	·	·		·	·
P	·	·		·	·	·	·			·	·	·	·	·			·	·	·	·		·	·
R	·	·		·	·	·	·										·	·	·	·		·	·
T	·	·	··	·	·	·	·										·	·	·	·		·	·
U	·	·		·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·		·	·
V	·	·		·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·		·	·
W	·	··		·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·		·	·
Y	·	··		·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·		·	·
AA	·	·	·																	·	·	·	·
AB	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	··	·	·	·	·	·	·
AC	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	··	·	·	·	·	·	·

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